CASSETTE RECEIVER

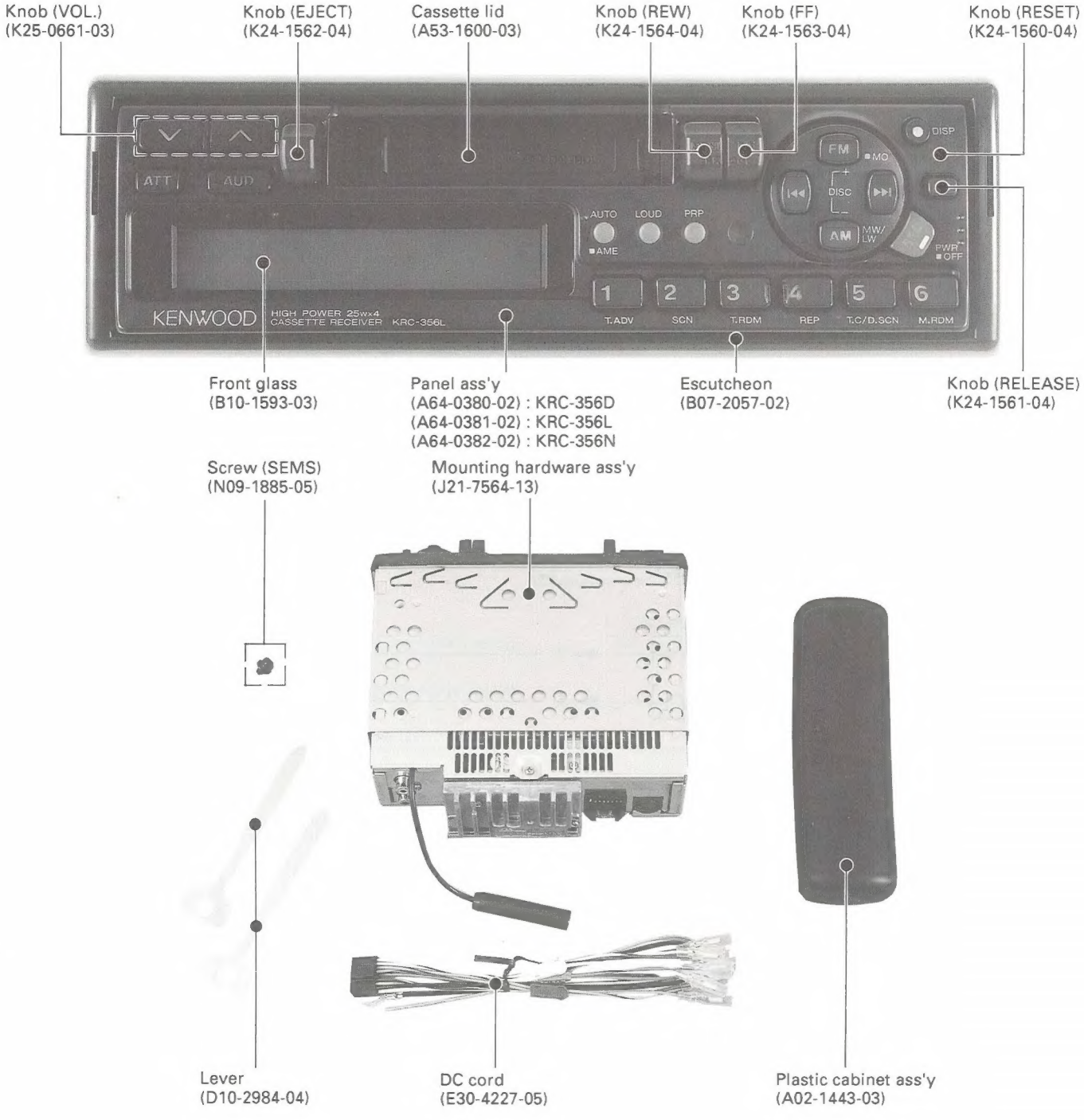
KRC-356D/L/N

SERVICE MANUAL

KENWOOD

B51-6779-00(N)2307

Photo is KRC-356L

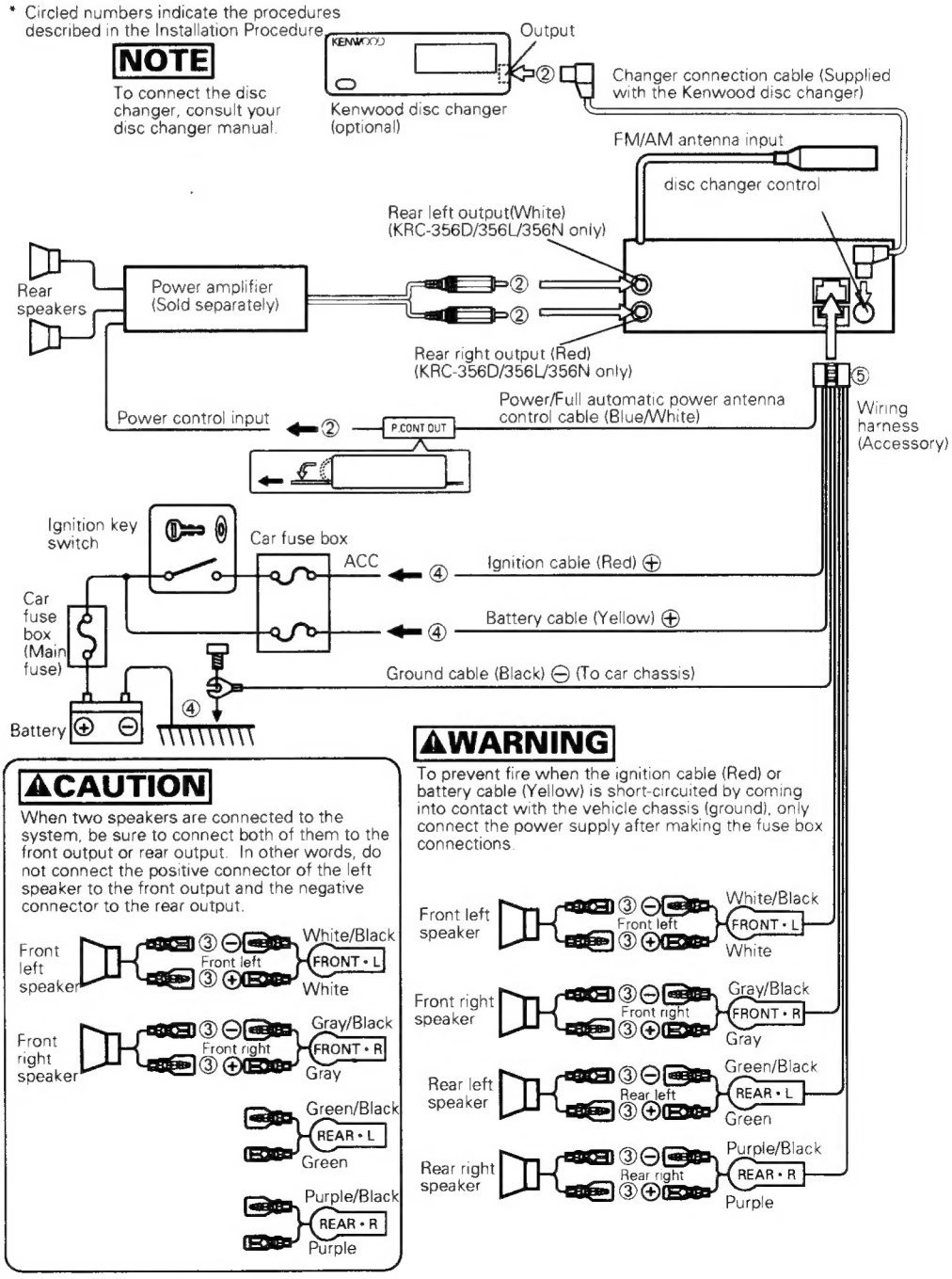


KRC-356D/L/N

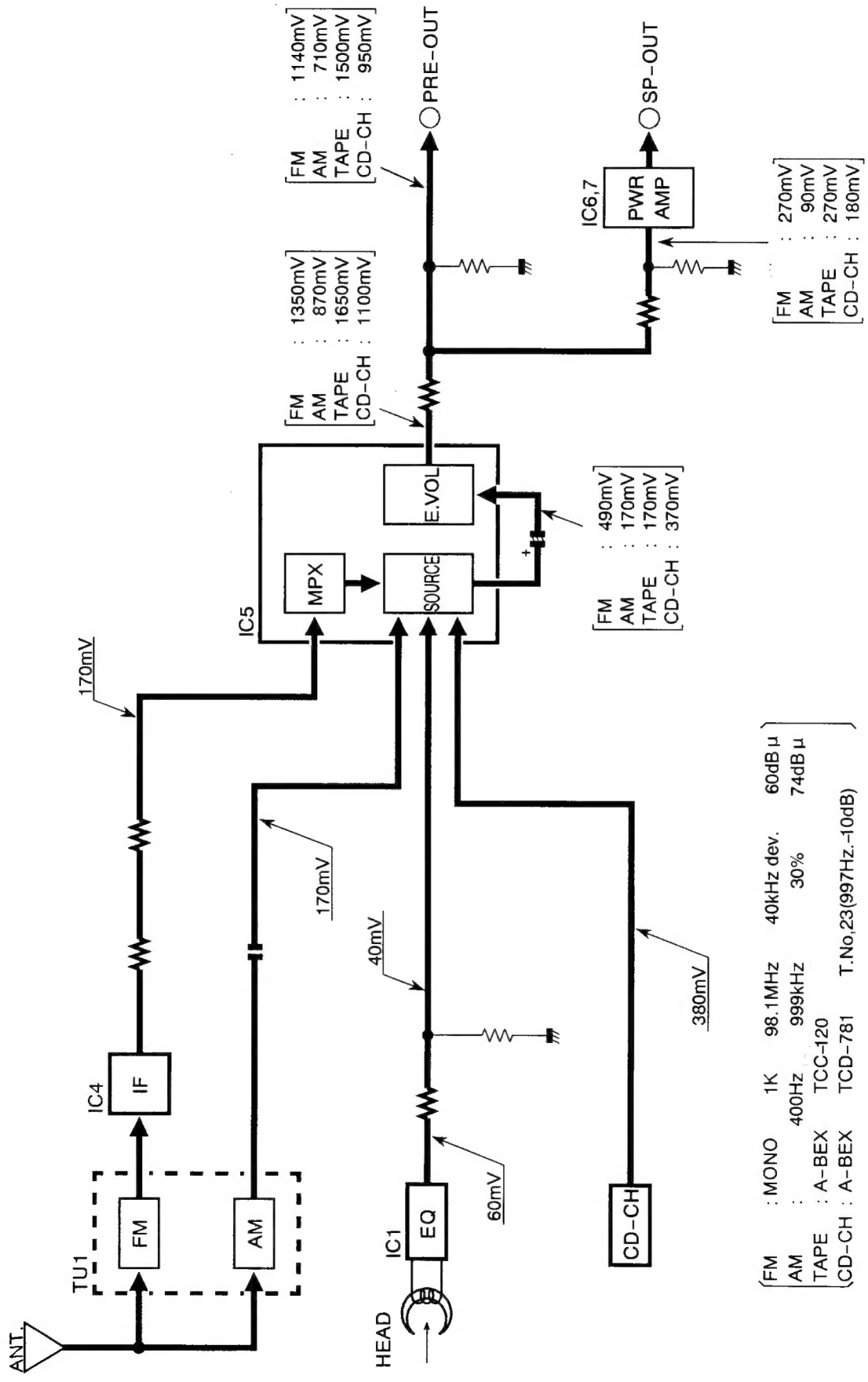
CONTENTS / CONNECTIONS

CONTENTS

CONNECTIONS



BLOCK DIAGRAM



KRC-356D/L/N

CIRCUIT DESCRIPTION

Description of components

SYNTHESIZER UNIT (X14-523X-XX) 2-70 : KRC-356D 2-71 : KRC-356L 2-72 : KRC-356N

Component	Component Name	Application/Functions	Operation/Condition/Compatibility
IC1	BA328F	TAPE EQ AMP	
IC4	LA1143B	FM IF AMP	FM IF signal amplification.
IC5	TDA7340P	E.VOL / NC MPX	FM NC MPX source selector ISO AMP.
IC6, 7	AN7190K	Power AMP	IC6[Rear], IC7[Front]
IC8	BA3906-V4	SYS-AVR IC	
IC9	LC72329-89XX	Microcomputer	LCD Driver various control. 22:256L/N, 24:256D
IC10	NJM4565M	SDK Buff	SDK IC input buffer. BPF of BK.
IC11	TDA1579T	SDK IC	Detection of SK and DK from the composite signal.
Q3, 4	DTC143TK	EQ-MUTE SW	
Q5	DTC144EK	FM LOCAL SW	
Q6	2SC2413K	FM IF AMP	
Q7	DTC144EK	AFC SW	OFF during seek. ON during reception.
Q8	DTC144EK	Band MUTE SW	
Q9	2SC2412K	FM S meter Buff	
Q10	2SA1037K	CRSC SW	
Q12	2SC2412K	CRSC CONTROL Buff	
Q13	DTA144EK	BS SW	LW/MW SW
Q14	2SC2412K	ACC Detection SW	
Q15	2SC2412K	Surge detection SW	
Q16	2SC2412K	B.U Detection SW	
Q17	2SB1277	P.CON output	
Q18	2SA1037K	P.CON SW	
Q19	DTA124EK		
Q20	2SC2412K		
Q21	DTA144EK	B.U Detection SW	
Q22	DTA144EK	PANEL Detection SW	
Q24	DTA144EK	B.U Detection SW	
Q25	DTA144EK	AVR IC STBY SW	
Q26	DTC144EK		
Q27	2SB1184	Illumination AVR	
Q28	2SC2412K		
Q29	DTA124EK	Illumination AVR SW	
Q30	DTC144EK		
Q37	2SB1443	MOTOR +B SW	
Q38	DTC114EK		
Q39	2SA1036K	PANEL +5V SW	
Q41	2SA1037K	MUTE Driver	
Q42	DTC144EK	MUTE SW based on momentary power failure surge detection	
Q43	2SC2412K	DSI LED driver	
Q44	2SK536	PLL LPF	
Q46	DTA144EK	Power ON SW	
Q50	DTC144EK	SK SW	Switches SK ON/OFF according to band muting.
Q53-56	DTC143TK	MUTE SW	
Q57.	DTA144EK	AM LOCAL SW	
Q58	DTC144EK		

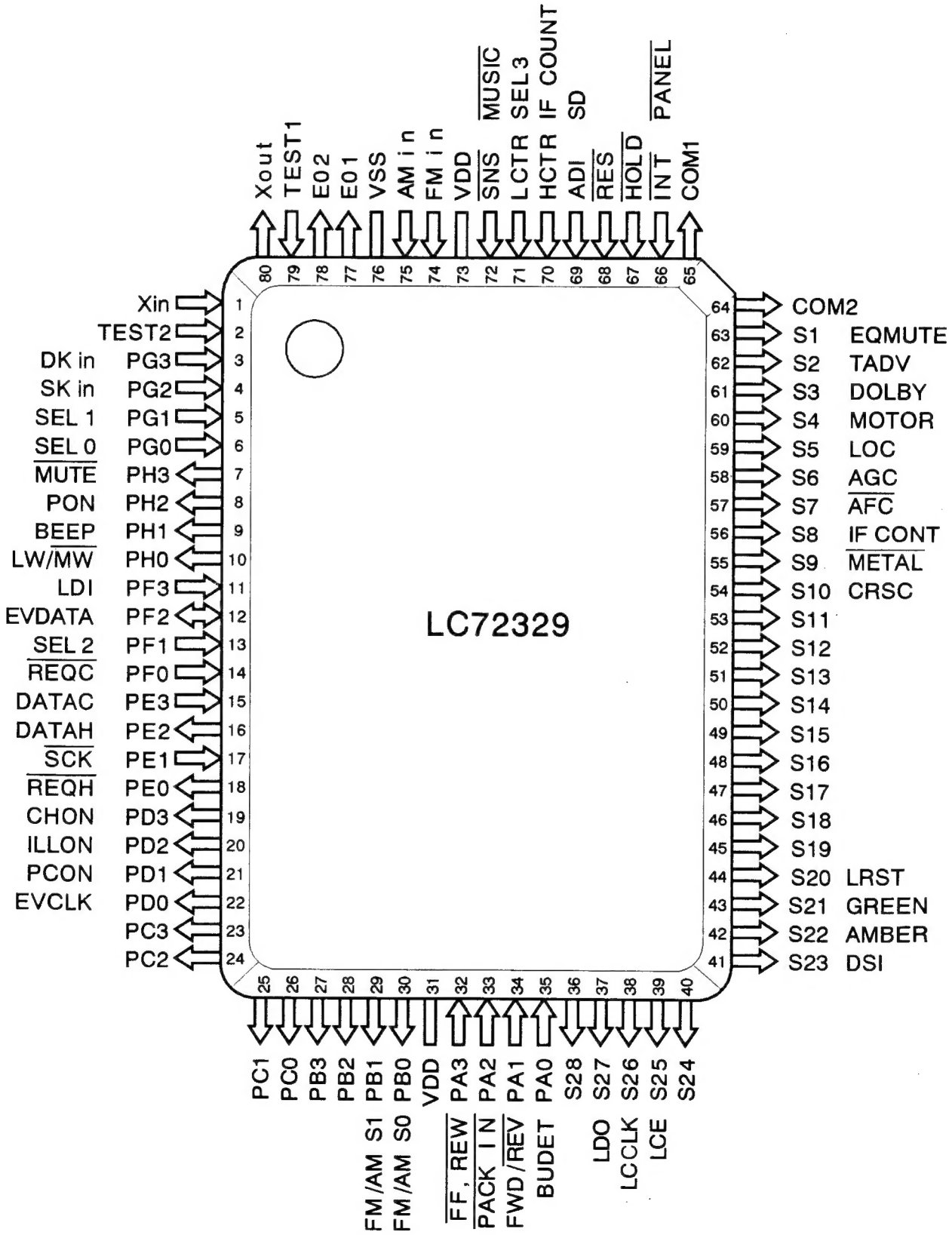
SWITCH UNIT (X25-727X-XX)

IC1	LC75852E	LCD Driver with key input	
Q1	DTC144EK	LCD Driver ON SW	
Q2	DTA144EK		

CIRCUIT DESCRIPTION

Microprocessor IC9 : LC72329-XXXX (X14-524X-XX) 8924 : KRC-356D 8922 : KRC-356L/N

Terminal connection



CIRCUIT DESCRIPTION

Terminal description

Pin.No	Name	I/O	Function	Description	During HOLD
3	PG3	I	DK in	DK signal input terminal.	-
4	PG2	I	SK in	SK signal input terminal.	-
5, 6	PG1, 0	I	SEL 1, 0	Destination select terminal.	-
7	PH3	O	$\overline{\text{MUTE}}$	Audio muting control output. ON="L".	L(15s, then H)
8	PH2	O	PON	Peripheral circuit power control terminal.	1s, then L
9	PH1	O	BEEP	BEEP output.	L
10	PH0	O	LW/$\overline{\text{MW}}$	AM Band LW/MW select.	L
11	PF3	I	LDI	LCD driver data input.	-
12	PF2	I/O	EVDATA	Electronic volume DATA input-output.	L
13	PF1	I	SEL 2	Destination select terminal.	-
14	PF0	I	$\overline{\text{REQC}}$	Communication request from the CD-Changer.	-
15	PE3	I	DATAC	Serial data input, Data input from the CD-Changer.	-
16	PE2	O	DATAH	Serial data output, Data output to the CD-Changer.	L
17	PE1	I	SCK	Serial data input, Clock input from the CD-Changer.	L
18	PE0	O	REQH	Request HU, Communication request to the CD-Changer.	L
19	PD3	O	CHON	Output when the CD-Changer is ON. ON="H". Also used as the audio swtching output.	L
20	PD2	O	ILLON	Illumination power control terminal.	L
21	PD1	O	PCON	Power control output.	L
22	PD0	O	EVCLK	Electronic volume CLK output.	L
23-26	PC3-0	O	(NC)	Not used. (L output)	L
27,28	PB3, 2	O	(NC)	Not used. (L output)	L
29,30	PB1, 0	O	FM/AM S1, S0	AM mode / FM mode / TAPE or CD-CH mode S1: H / L / H S0: H / L / L	L
31	Vdd	-	Vdd	5V.	
32	PA3	I	$\overline{\text{FF, REW}}$	Tape fast winding detection input. "L"=During FF/REW.	-
33	PA2	I	$\overline{\text{PACK in}}$	Tape detection input. "L"=Tape mode.	-
34	PA1	I	FWD/$\overline{\text{REV}}$	Tape transport direction input. "H"=FWD, "L"=REV.	-
35	PA0	I	BUDET	Buck-Up detection. (Voltage failure detection)	-
36	S28	O	(NC)	Not used. (L output)	L
37	S27	O	LDO	LCD driver data output terminal.	L
38	S26	O	LCCLK	LCD driver CLK output terminal.	L
39	S25	O	LCE	LCD driver CE output terminal.	L
40	S24	O	(NC)	Not used. (L output)	L
41	S23	O	DSI	DSI ON/OFF output.	Blinking
42	S22	O	AMBER	AMBER illumination output.	L
43	S21	O	GREEN	GREEN illumination output.	L
44	S20	O	LRST	LCD driver reset output.	L
45-53	S19-11	O	(NC)	Not used. (L output)	L
54	S10	O	$\overline{\text{CRSC}}$	CRSC ON/OFF output. ON="H".	L
55	S9	O	$\overline{\text{METAL}}$	METAL output. METAL="L".	L
56	S8	O	IF CONT	IF COUNTER control.	L
57	S7	O	$\overline{\text{AFC}}$	AFC control output. ON="L".	L
58	S6	O	AGC	AGC cut control output. ON="H".	L
59	S5	O	LOC	Local output. AM/FM logic inversion.	L
60	S4	O	MOTOR	Tape motor control.	L
61	S3	O	DOLBY	DOLBY output.	L
62	S2	O	TADV	T-ADV plunger output. "H"=ON.	L
63	S1	O	EQ-MUTE	Tape Equalizer Mute control output. ON="H".	L

CIRCUIT DESCRIPTION

Pin.No	Name	I/O	Function	Description	During HOLD
64,65	COM 2,1	O	COM 2, 1	LCD Common output.	L
66	$\overline{INT}$	I	$\overline{PANEL}$	Panel detection switch. Detected="L".	-
67	$\overline{HOLD}$	I	$\overline{HOLD}$	Power input.	Return at ⌐
68	$\overline{RES}$	I	RESET	(Connected to Vdd)	
69	ADI	I	SD in	FM/AM station signal detection input. (Vth=0.75V) "H"=Station detected.	-
70	HCTR	I	IF COUNT	AM Band IF Counter.	
71	LCTR	I	SEL 3	Destination select terminal.	
72	$\overline{SNS}$	I	$\overline{MUSIC}$	Music detection in tape mode.	-
73	Vdd	-	Vdd	5V.	
74,75	FM,AM in	I	FM, AM in	VCO input .	
76	Vss	-	Vss	(Connected to GND)	
77,78	E01,2	O	E01, 2	Phase Detector Error output.	
79,2	TEST 1,2	I	-	(Connected to GND)	
80,1	X out, in	I/O	X out, in	4.5MHz X'tal.	

Key matrix

	KI1 (52)	KI2 (53)	KI3 (54)	KI4 (55)	KI5 (56)
KS6 (51)	-	-	-	-	SOURCE ↑POWER
KS5 (50)	-	-	-	-	PANEL DETECTION
KS4 (49)	AM	FM ↑MONO	UP	DOWN	CLOCK
KS3 (48)	AUDIO ↑VOL RETURN	-	VOLUME ∧	VOLUME ∨	ATT ↑LOUD
KS2 (47)	RADIO : 6	DxAUTO →LOCAL AUTO →MANUAL / SK-SEEK ↑AUTO MEMORY	LOUDNESS	-	SDK (D type) PRP (Except D type)
KS1 (46)	RADIO : 1 TA : T-ADV	RADIO : 2	RADIO : 3 TA : METAL	RADIO : 5 TA : T-CALL	RADIO : 4

CIRCUIT DESCRIPTION

Audio signal processor IC5 : TDA7340P (X14-1523-10)

Audio processor

- Mute, soft mute and zero crossing mute.
- One differential, two stereo and two mono inputs.
- Differential phone input
- Volume, bass, treble and loudness control.
- Four speaker attenuators with independent attenuation control.

Stereo decoder

- Adjustment free integrated 456kHz VCO.
- High cut control.
- Stereo blend.

Noise blanker

- Integrated high-pass filter.
- Noise rectifier output for quality detection.
- Programmable trigger threshold.

Pause detector

- Programmable threshold.

All functions programmable via I²C bus.

Description

The TDA7340 I²C bus controlled audio signal processor contains all signal processing blocks of a high performance car radio, including audio processor, stereo decoder, noise blanker, pause detector and different mute functions.

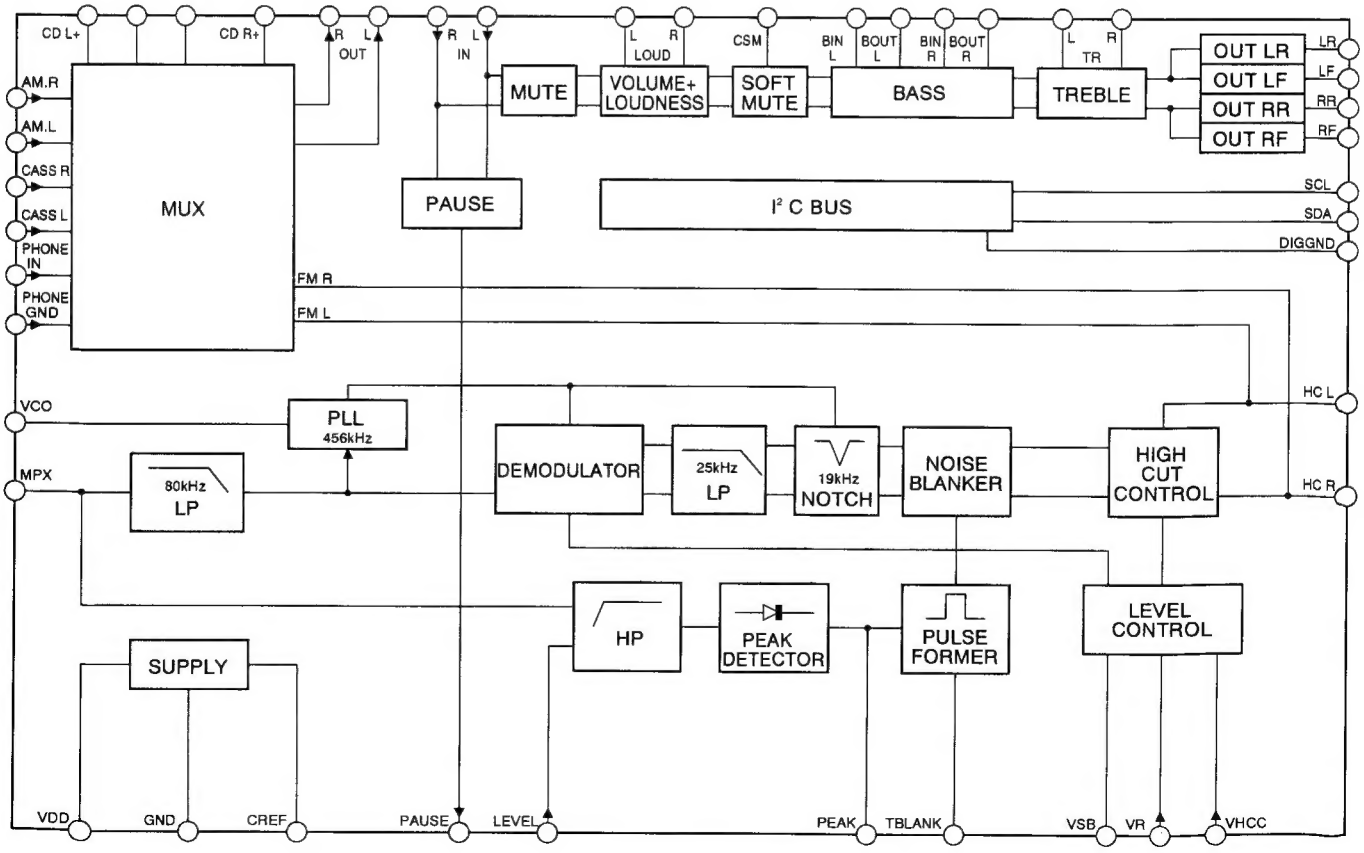
The use of BICMOS technology allows the implementation of several filter functions with switched capacitor techniques like fully integrated, adjustment free PLL loop filter, pilot detector with integrator and two 19kHz notch filters.

This minimizes the number of external components.

Due to a highly linear signal processing, using CMOS-switching techniques instead of standard bipolar multipliers, very low distortion and very low noise are obtained also in the stereo decoder part. The audio processor contains several new features like soft mute, zero-crossing mute and pause detector.

Very low Dc stepping is obtained by use of a BICMOS technology.

Block diagram



CIRCUIT DESCRIPTION

Audio processor part

Features :

Input multiplexer

- Differential CD stereo input.
- Cassette stereo input.
- FM Stereo input from stereo decoder.
- AM input
  Mono or stereo mode (Programmable)
- Beep input (Only in AM mono mode)
- Telephone differential mono input
- Gain programmable in 3 x 3.75dB steps.

Loudness

- Fully programmable.
- 15 x 1.25dB steps.

Volume control

- 1.25dB coarse attenuator.
- 0.31dB fine attenuators.
- Max gain 20dB.
- Max attenuation 59.69dB (Plus loudness).

Bass control

- ±7 x 2dB steps.
- 2nd order symmetrical or non symmetrical frequency response (Programmable).

Treble control

- ±7 x 2dB steps.

Speaker control

- 4 independent speaker control in 1.25dB steps
- Control range 37.5dB.
- Independent speaker mute.

Mute functions

- Direct mute.
- Zero crossing mute with programmable threshold.
- Soft mute with external defined slope.

Pause detector

- Programmable threshold.
- Delay time defined by an external capacitor.

Stereo decoder part

Features :

- Integrated 19kHz notch filter for pilot cancellation.
- On chip filter for pilot detector and PLL.
- Adjustment free voltage control LED oscillator.
- Automatic pilot dependent mono/stereo switching.
- Very high inter modulation and inter reference suppression.
- I^2C bus controlled (STD off, forced mono, stereo).
- High cut control.
- Stereo blend.

Noise blanker part

Features :

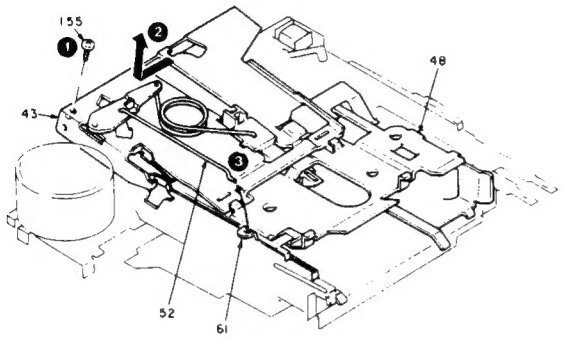
- Internal 2nd order high-pass filter.
- Noise rectifier output for signal quality detection.
- Programmable trigger threshold.
- Trigger threshold dependent on high frequency noise.
- Blanking time programmable by external capacitor.
- Very low offset current during hold time due to OPAMPS with MOS inputs.
- Level input for additional spike detection on field strength.

KRC-356D/L/N

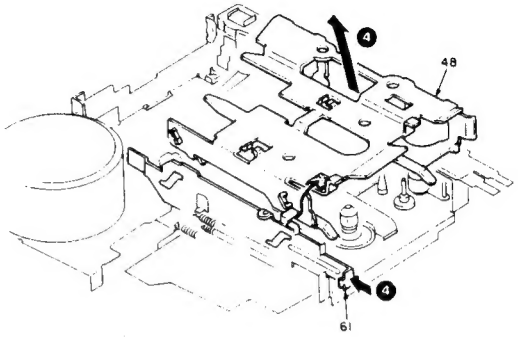
DISASSEMBLY FOR REPAIR (MECHANISM)

REMOVAL

1. Remove screw (155) (❶).
2. Rotate the lifter (43) to the left and lift it up to remove (❷).
3. Remove the rod (52) from the eject lever (61) (❸).

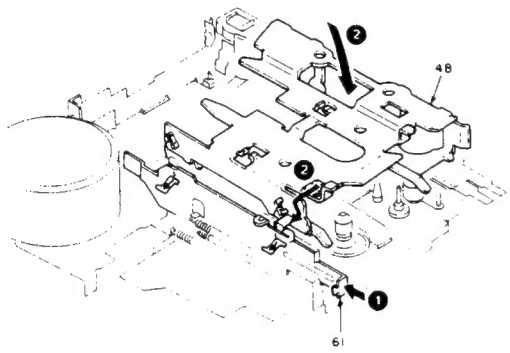


4. While pressing in on the eject lever (61), remove the holder (48) (❹).

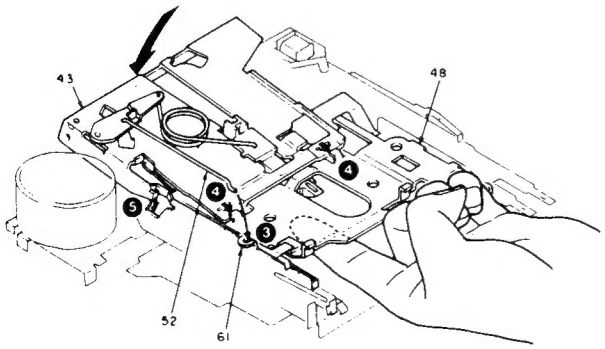


SET UP

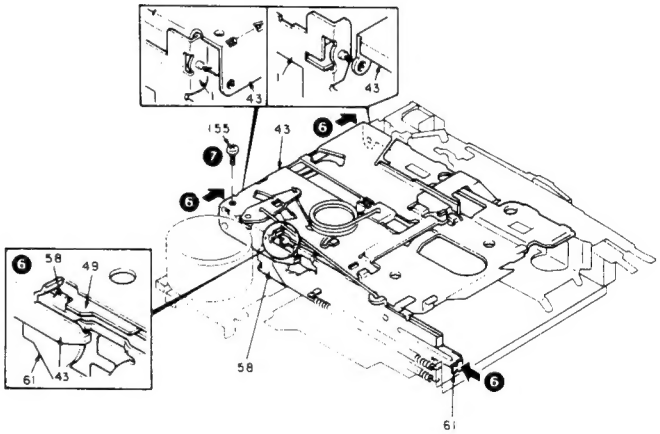
1. While pressing in on the eject lever (61), attach the holder (48) (❶).
2. Insert the holder's (48) projecting tab into the push plate's groove (❷).



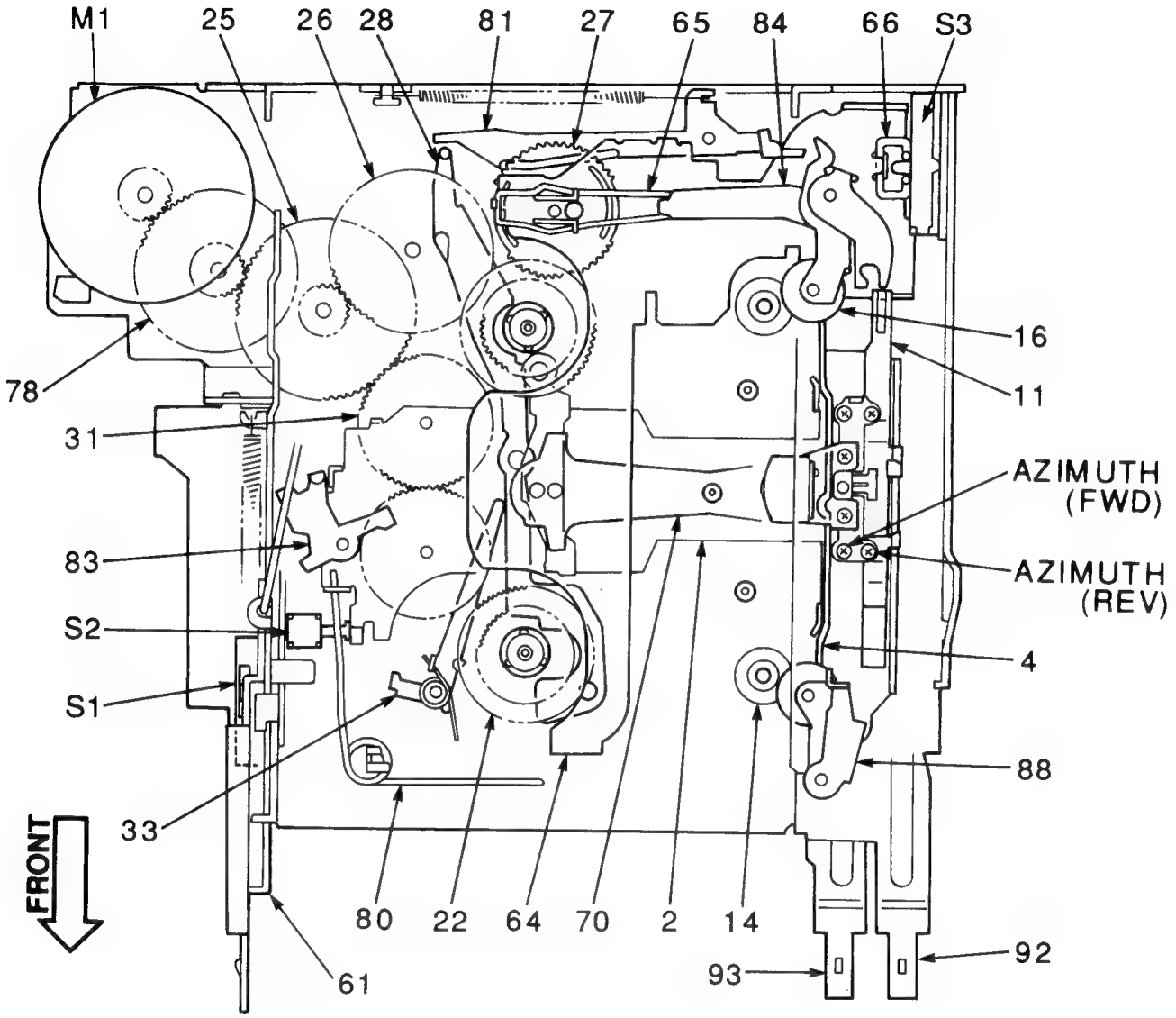
3. Insert the rod (52) into the hole in the eject lever (61) (❸).
4. While lifting up the holder (48), engage the lifter (43) (❹).
5. Move the lifter (43) down so that it aligns with the eject lever's (61) cut out (❺) section.



6. Align the lifter (43) with the chassis (1) projections and move it to the right to engage (see diagram) (❻).
7. Secure the assembly by attaching the screw (❼).



MECHANISM OPERATION DESCRIPTION



MECHANISM OPERATION DESCRIPTION

LOADING

1. Insert a cassette tape (❶).

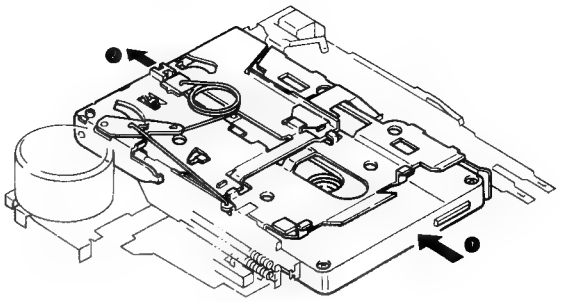


Fig. 1

2. The pack slider (50) presses the lever (49) (❷).
3. The lever (49) rotates and the push plate (58) lock releases. The push plate is pulled by spring (59) and moves forward (❸).

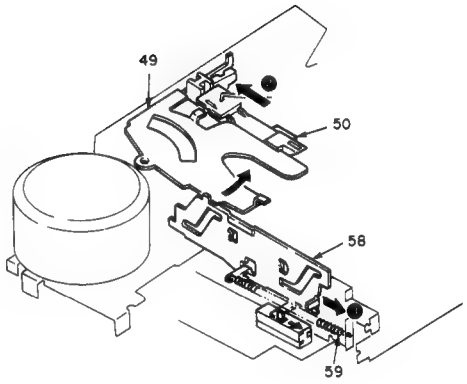


Fig. 2

4. The holder (48) lowers following the groove in the push plate (58) (❹).
5. The slide switch (S1) is pressed by the push plate (58) and turns ON. When S1 turns ON, current is supplied to the motor (M1) (❺).

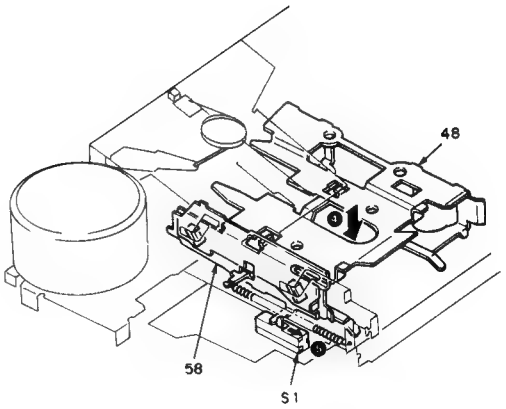


Fig. 3

MECHANISM OPERATION DESCRIPTION

6. The push arm (83) is pressed by the push plate (58) and rotates. The push arm (83) releases the head plate (2) lock (❻).
7. The head plate (2) is pulled forward by the spring (80) (❼).

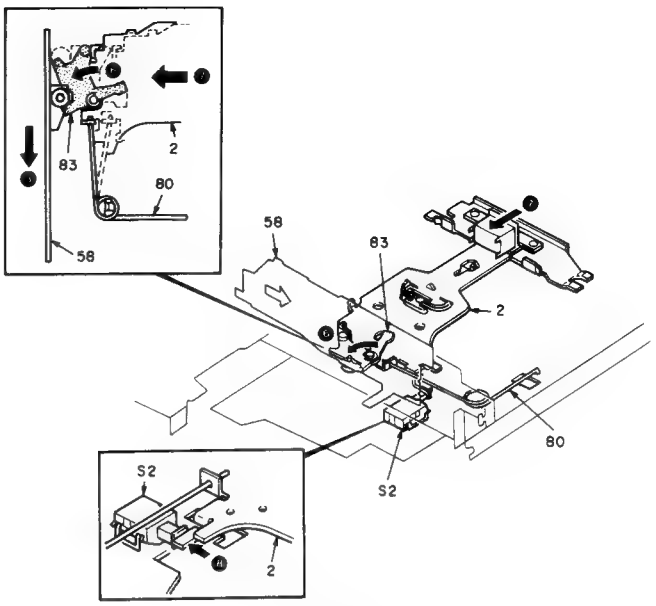


Fig. 4

8. The forward movement of the head plate (2) causes the push switch (S2) to turn ON (❽).
9. Through the forward movement of the head plate (2), the PR spring (4) causes the pinch roller assembly (16, 17) to press against the capstan assembly (74) (❾).

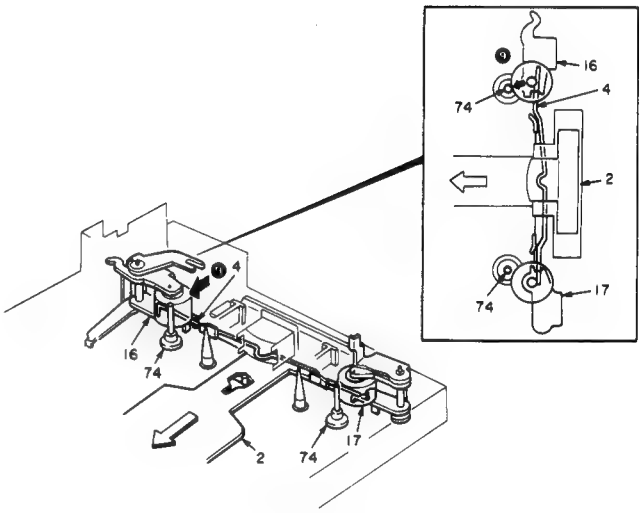


Fig. 5

10. The rotation of the motor is transmitted through various gears (78 → 25 → 31 → 6 →) to drive the winding side reel disk assembly (22) (❿).
11. The sending side reel disk assembly (22) is not driven by the motor rotation because it is separated from the play gear (6) (⓫).

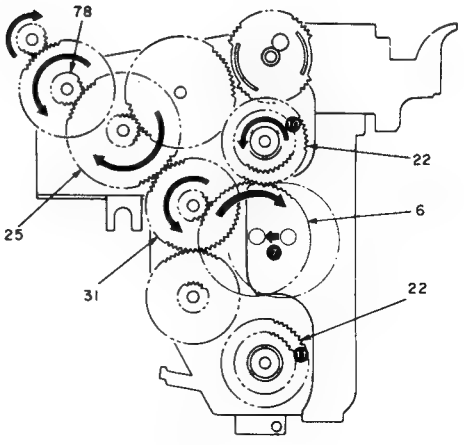


Fig. 6

MECHANISM OPERATION DESCRIPTION

PROGRAM (Manual Program Change)

1. When pressing FF/REW (92 and 93) levers at the same time (❶), the levers are placed into a slot on the PC (Play Change) plate (94) in direction of arrow (❷) in Fig.7.
2. The PC plate (94) moves in the direction of arrow (❸), trigger arm (81) is kicked in the direction of arrows (❹) and (❺), thereby releasing the turn-over gear (27).
3. The turn-over gear (27) is rotated in the direction of arrow (❻) by ED (End Detector) gear (26), which moves main plate (64).

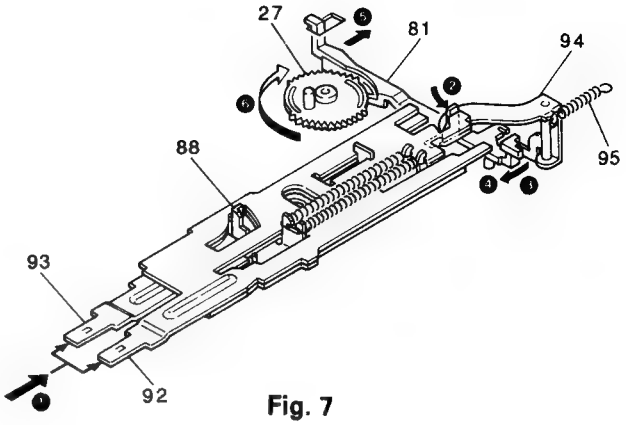


Fig. 7

4. The main plate (64) slides in direction of arrow (❼) in Fig.8 causing the following part movements;
   a) Head switch (10) movement is changed per arrow (❽).
   b) Force transferred from pinch roller spring (4) changes the relation of pinch roller and capstan to each other, per arrow (❾).
   c) Seesaw plate (20) is moved by the main plate and seesaw plate spring (65), and moves seesaw working plate (84). All FF/REW operation is performed by this seesaw plate movement. See arrow (❿).

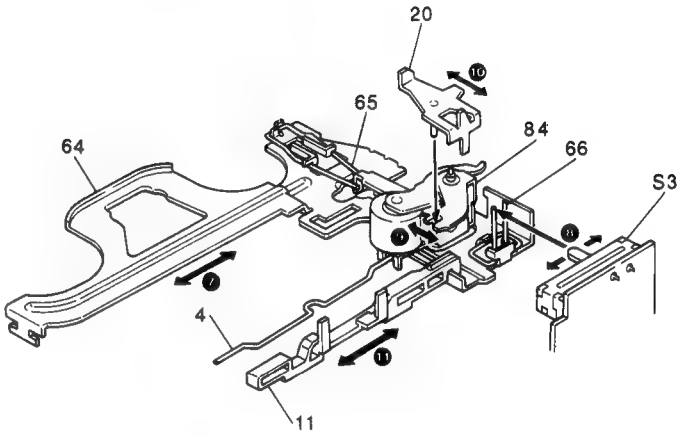
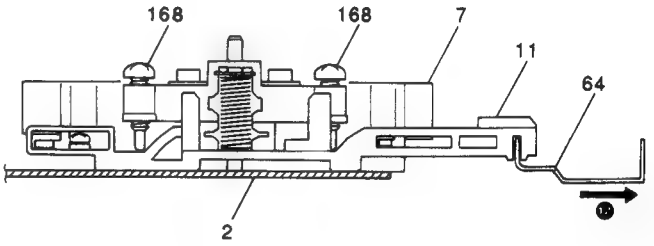


Fig. 8

   d) The shift plate (11) is moved in direction of arrow (⓫), and head moves up and down per arrows (⓬ , ⓭ and ⓮) in Fig.9.



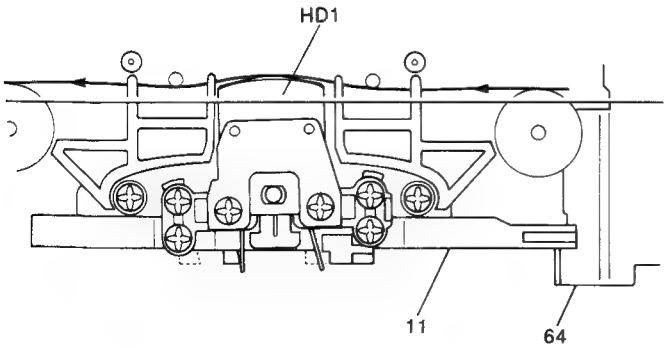


Fig. 10

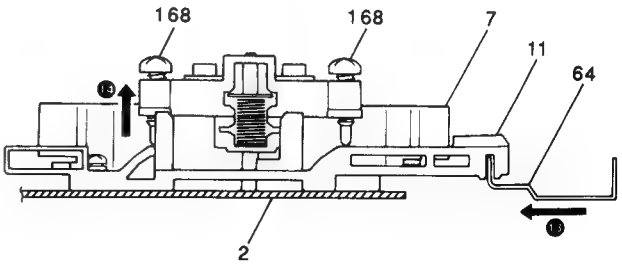


Fig. 9

MECHANISM OPERATION DESCRIPTION

e) The play gear metal (5) is engaged, per arrows (⑮) and (⑯) in Fig.11. Then play gear (6) is connected to take-up reel assembly (22) on forward side in FWD play, and connected to the other take-up reel assembly in REV play. Rotation from the play clutch (31) is transferred to take-up reel assembly per arrows (⑰) and (⑱) in Fig.11. As mentioned above, the direction in play mode can be changed. During play mode active, the head panel is moved backward by head panel return arm (88) in direction of arrow (⑲) in Fig.11. The Mute switch (S2) is turned on per arrow (⑳), and play mode is not reversed while FF/REW levers are pushed by operation of anti-reverse arm (33). See Fig.12.

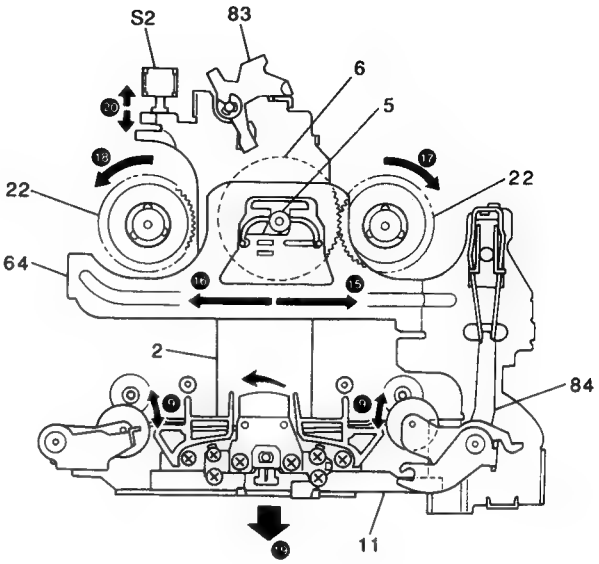


Fig. 11

MECHANISM OPERATION DESCRIPTION

FF

1. Press the FF lever (92) (❶).
2. The return arm (88) is pushed by the FF lever (92) and rotates (❷).
3. The head plate (2) is pulled by the return arm (88) and moves back (❸).
4. The seesaw plate (20) is pushed by the FF lever (92) and rotates (❹).

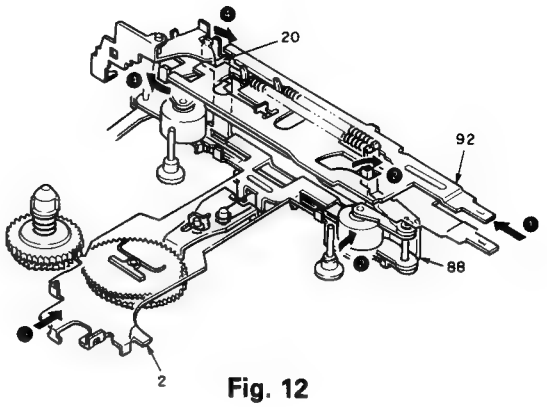


Fig. 12

5. The FR slide plate (86) is pulled by the seesaw plate (20) and moves forward (❺).
6. The working plate (70) is pulled by the FR slide plate (86), and the FR gear (71) engages with the clutch assembly (31) and winding side reel disk assembly (22) (❻).
7. The FF lever (92) is locked by the lock plate (96) (❼).

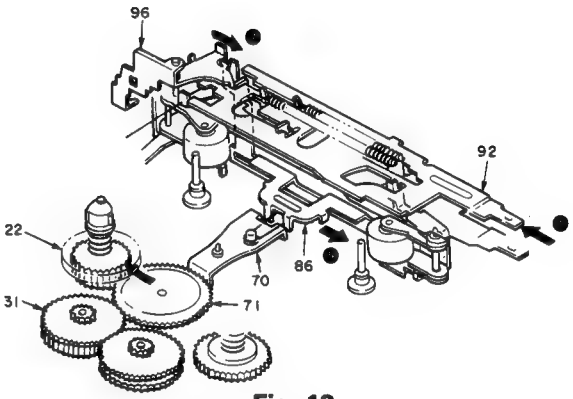


Fig. 13

8. If the REW lever (93) is pressed, the lock plate (96) rotates, the FF lever (92) lock is released and the deck enters play mode (❽).

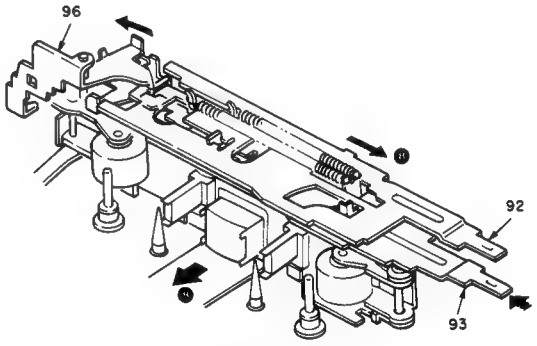


Fig. 14

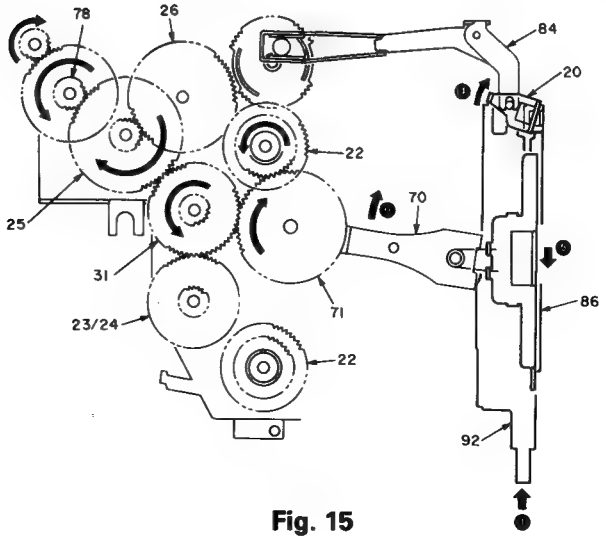


Fig. 15

MECHANISM OPERATION DESCRIPTION

REW

1. Press the REW lever (93) (❶).
2. The return arm (88) is pushed by the REW lever (93) and rotates (❷).
3. The head plate (2) is pulled back by the return arm (88) and moves back (❸).
4. The seesaw plate (20) is pushed by the REW lever (93) and rotates (❹).

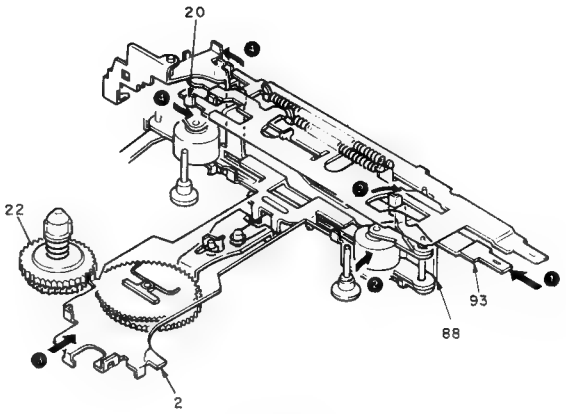


Fig. 16

5. The RF slide plate (86) is pushed by the seesaw plate (20) and moves backward (❺).
6. The working plate (70) is pulled by the RF side plate (86), and the FR gear (71) engages with the sending side reel disk assembly (22) and F gear (24) (❻).
7. The REW lever (93) is locked by the lock plate (96) (❼).

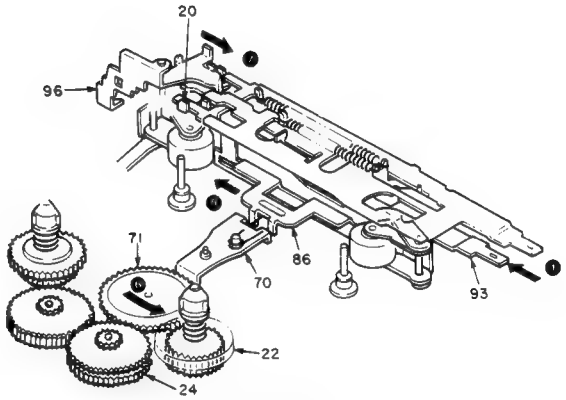


Fig. 17

8. If the FF lever (92) is pressed, the lock plate (96) rotates, the REW lever (93) lock is released and the deck enters play mode (❽).

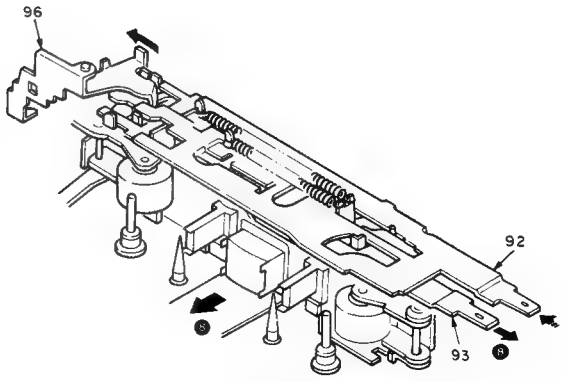
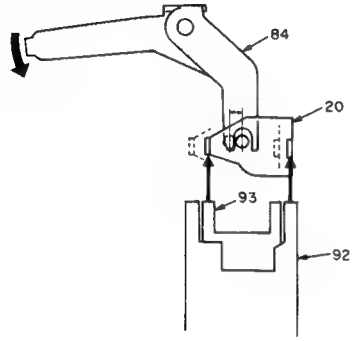


Fig. 18

MECHANISM OPERATION DESCRIPTION

Note : During reverse play, since the seesaw working plate (84) moves the center of the seesaw plate (20) to the right, pressing the FF lever activates the rewind operation and pressing the REW lever activates the fast-forward operation.



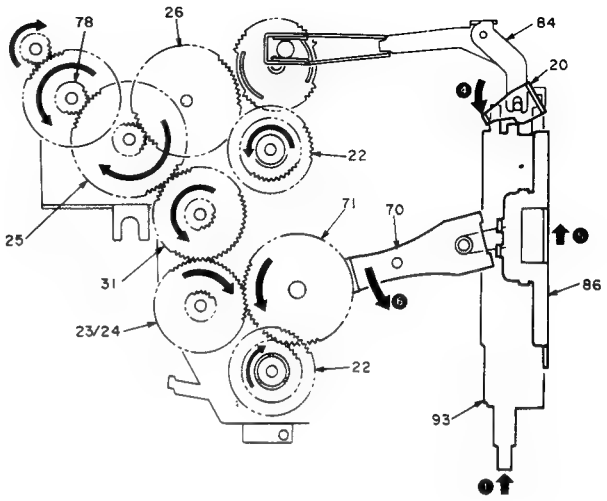


Fig. 19

AUTO REVERSE

1. When the end of the taps is reached during playback and the reel disk assembly (22) stops rotating, the ED plate (28) is pushed by the ED gear (26) (❶).
2. The ED gear (26) rotates and the boss pushes the ED plate (28) further (❷).
3. The ED plate (28) pushes the trigger arm (81) (❸).
4. The trigger arm (81) releases the reverse gear (27) lock (❹). (The "program" operation starts.)

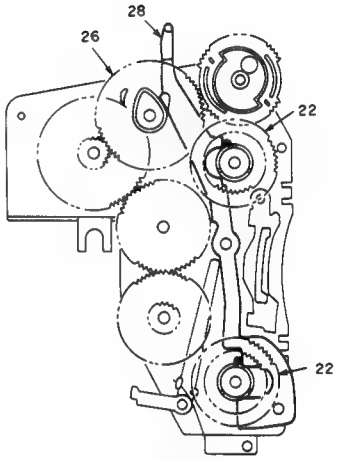


Fig. 20

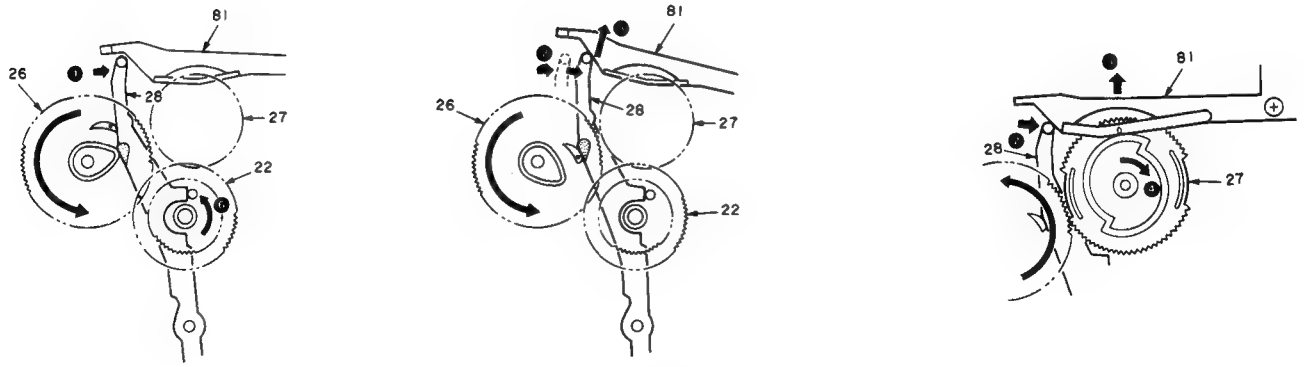


Fig. 21

MECHANISM OPERATION DESCRIPTION

5. In the same way, during FF and REW, the ED plate operates when the tape end is reached, When the plate (64) moves (❼), the lock plate (96) rotates (❽) and the FF/REW lever is released, causing the deck to enter play mode (❾).

6. The pin at the lower side of the reel disk assembly (22) resets the ED plate (28) (❻).

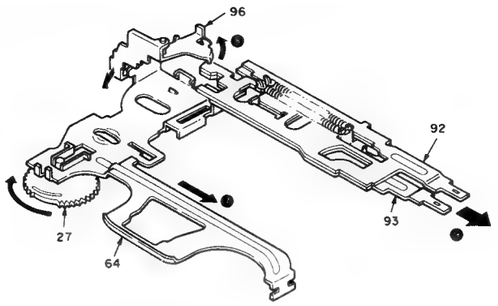


Fig. 22

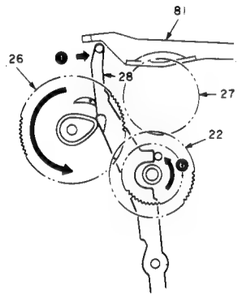


Fig. 23

EJECT

1. Press the EJ lever (61) (❶).
2. The push plate (58) is pushed by the EJ lever (61) and rotates the push arm (83) (❷).
3. The push arm (83) moves the head plate (2) back (❸).
4. The EJ lever (61) moves the rod (52) and rotates the PE plate (44) (❹).

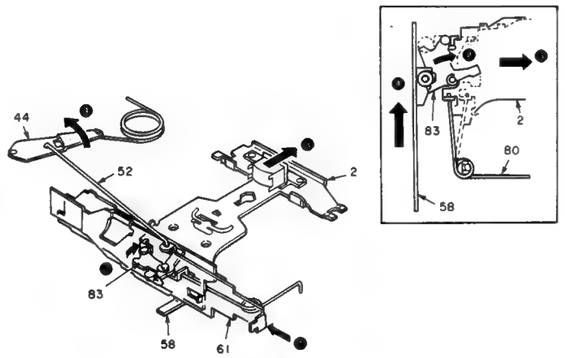


Fig. 24

5. The holder (48) moves up following the push plate (58) groove (❺).
6. The PE plate (44) turns the reverse spring (47) over and pushes out the pack slider (50) (❻).

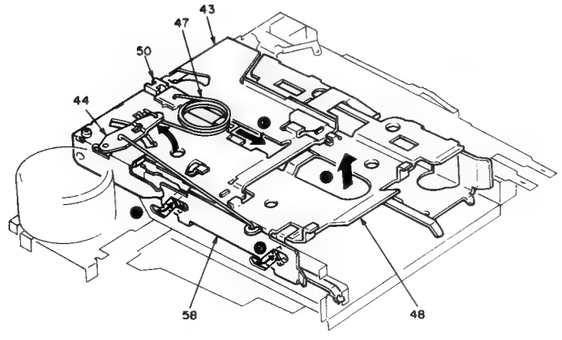


Fig. 25

KRC-356D/L/N

ADJUSTMENT

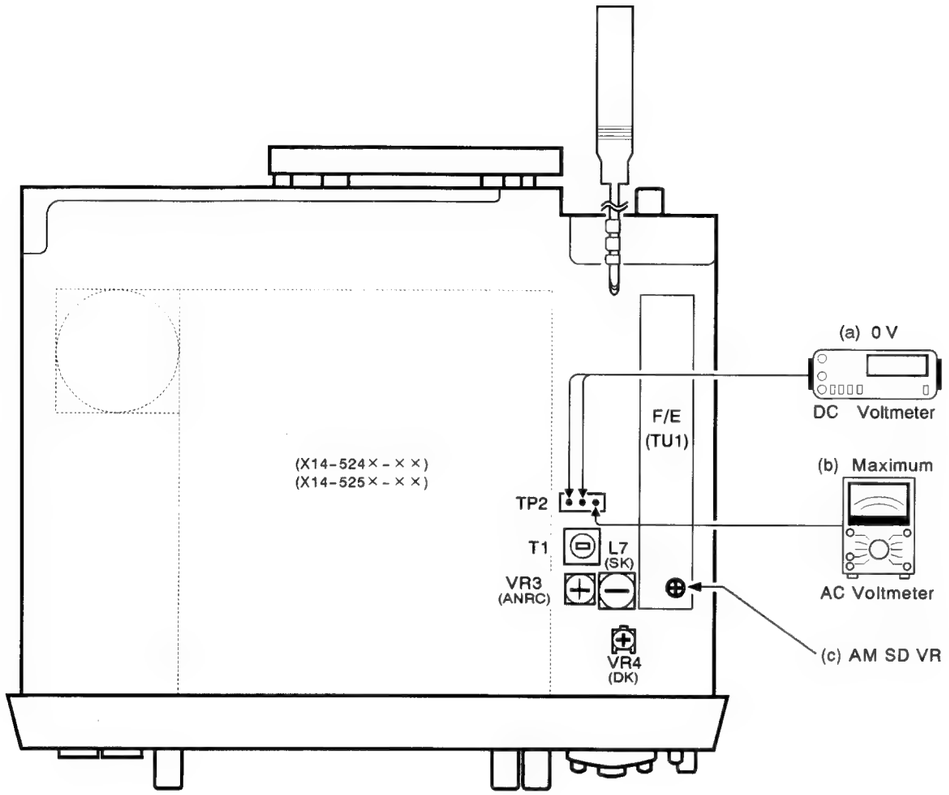
Set the controls and switches as follows.

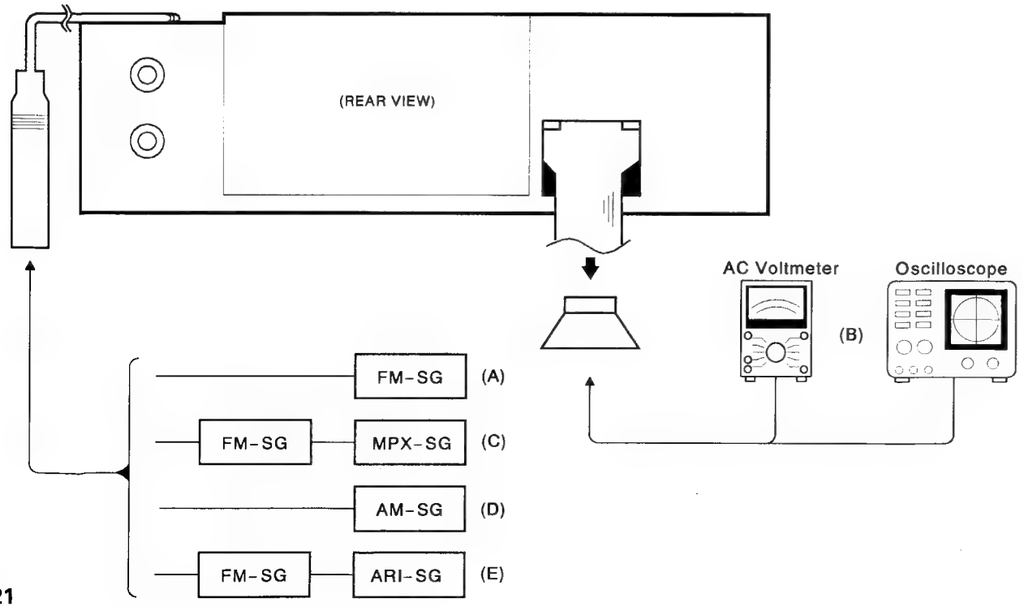
BALANCE	:center position	LOUD	:OFF	METAL	:OFF
FADER	:center position	T · ADV	:OFF	DOLBY NR	:OFF
BASS	:center position	LOCAL	:OFF		
TREBLE	:center position	AUTO	:OFF		

No	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER)	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRI-MINATOR	(A) 98.1MHz 0dev 60dBμ (ANT input)	Connect a DC voltmeter toTP2	FM 98.1MHz	T1	0V	(a)
2	ANRC	(C) 98.1MHz 1kHz, ±40kHz dev Pilot: ±6.0kHz dev Selector:L or R 35dBμ (ANT input)	(B)	FM 98.1MHz	VR3	Separation 10dB	
SDK SECTION							
<1>	DK LEVEL	(E) 98.1MHz 0 mod SK 5.33% DK 30% BK 60% 60dBμ (ANT input)	Connect an AC voltmeter to TP2	FM 98.1MHz SDK, OFF	L7 VR4	Maximum	(b)
AM SECTION							
(1)	SEEK STOP LEVEL	(D) 999 kHz 400Hz, 30% mod 35dBμ (ANT input)	TEST MODE : ON	AM 999 kHz	VR (TU1)	STOP	(c)
CASSETTE DECK SECTION							
[1]	AZINUTH	MTT-114 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	–	(e)

*Test mode : Turn power ON while holding the [DOWN] and [DISP] keys depressed. (All of the LCD elements light.)
Then, press the [FM] or [AM] key.
To quit : Power OFF.

ADJUSTMENT





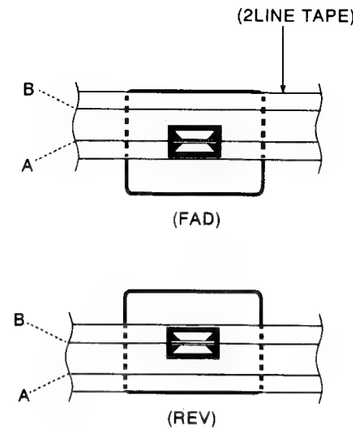
KRC-356D/L/N

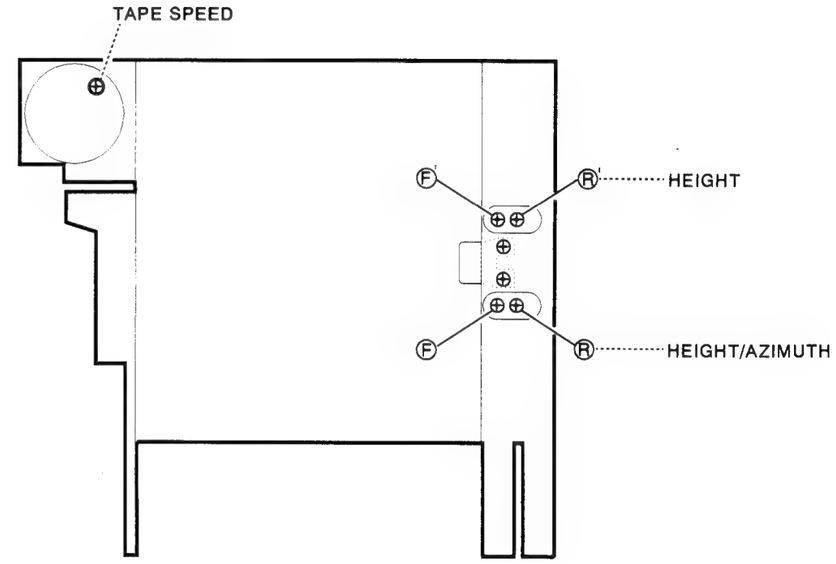
ADJUSTMENT

Head Angle Adjustment

Head height alignment procedure

- During FWD transport, adjust screws Ⓕ and Ⓕ' so that line A of 2-line tape passes through the center of the head shield plate (white section).
- During REV transport, adjust screws Ⓡ and Ⓡ' so that line B of 2-line tape passes through the center of the head shield plate (white section).
- After the alignment above, reverse the transport direction and check the FWD alignment again. If it is deviated, perform alignment again. (Tape used: SCC-1659, manufactured by A-BEX).





PC BOARD (COMPONENT SIDE VIEW)

SWITCH UNIT(X25-727X-XX)

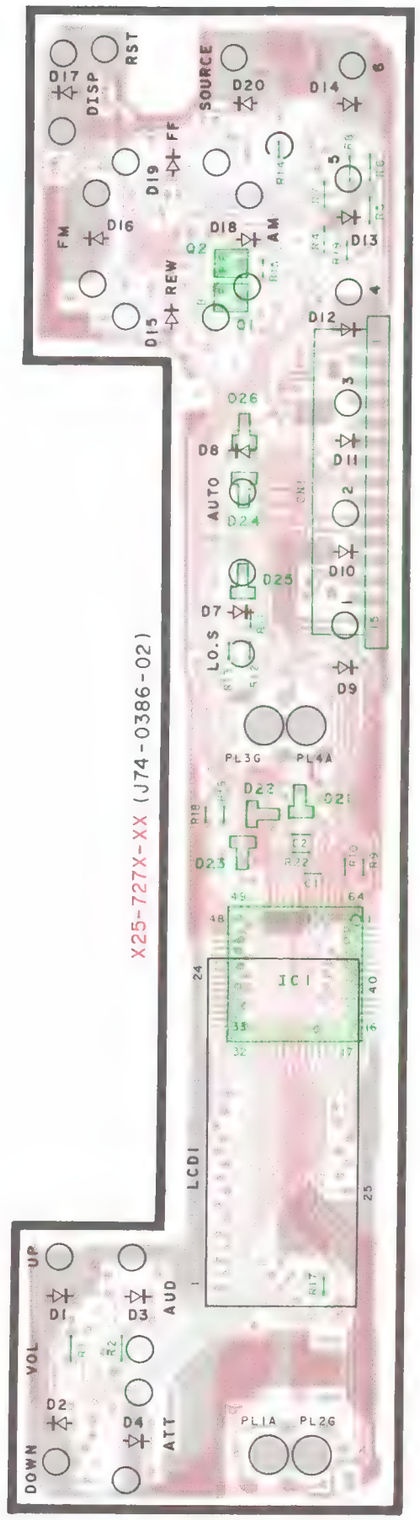
0-10:356D/N, 2-71/2-72:356L, 2-73:356N

(X14-524X-XX)

IC	Q	address
1		4H
3		5F
4		5H
5		4F
6		2G
7		2F
8		5E
9		6F
10		6H
11		6H
	3	4H
	4	4H
	5	4I
	6	5I
	7	5G
	8	6G
	9	6G
	10	4F
	12	4F
	13	5I
	14	4D
	15	4D
	16	4D
	17	5D
	18	5D
	19	5D
	20	5D
	21	4D
	22	4D
	24	4D
	25	4E
	26	4E
	27	6D
	28	6D
	29	5D
	30	5D
	35	5D
	36	6E
	37	6E
	38	6E
	39	7F
	41	3G
	42	6E
	43	7E
	44	5G
	46	6E
	50	6G
	53	3G
	54	3G
	55	3H
	56	3H
	57	4I
	58	6I

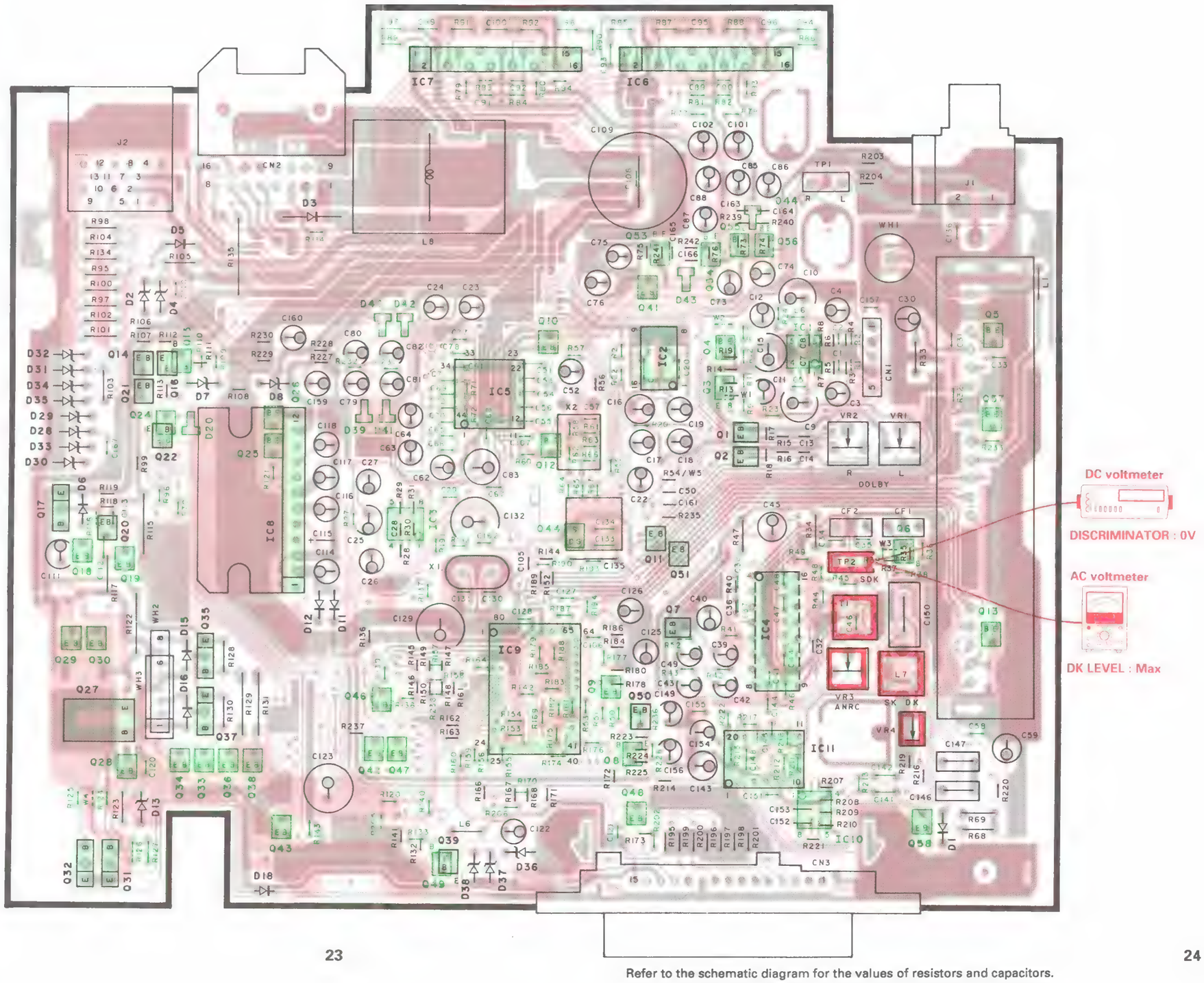
(X25-727X-XX)

IC	Q	address
1		5C
	1	3B
	2	2B



SYNTHESIZER UNIT(X14-5242-XX) -70:356D, -71:356L, -72:356N

SYNTHESIZER UNIT(X14-5252-XX) -70:356L, -71:356N



DC voltmeter

DISCRIMINATOR : 0V

AC voltmeter

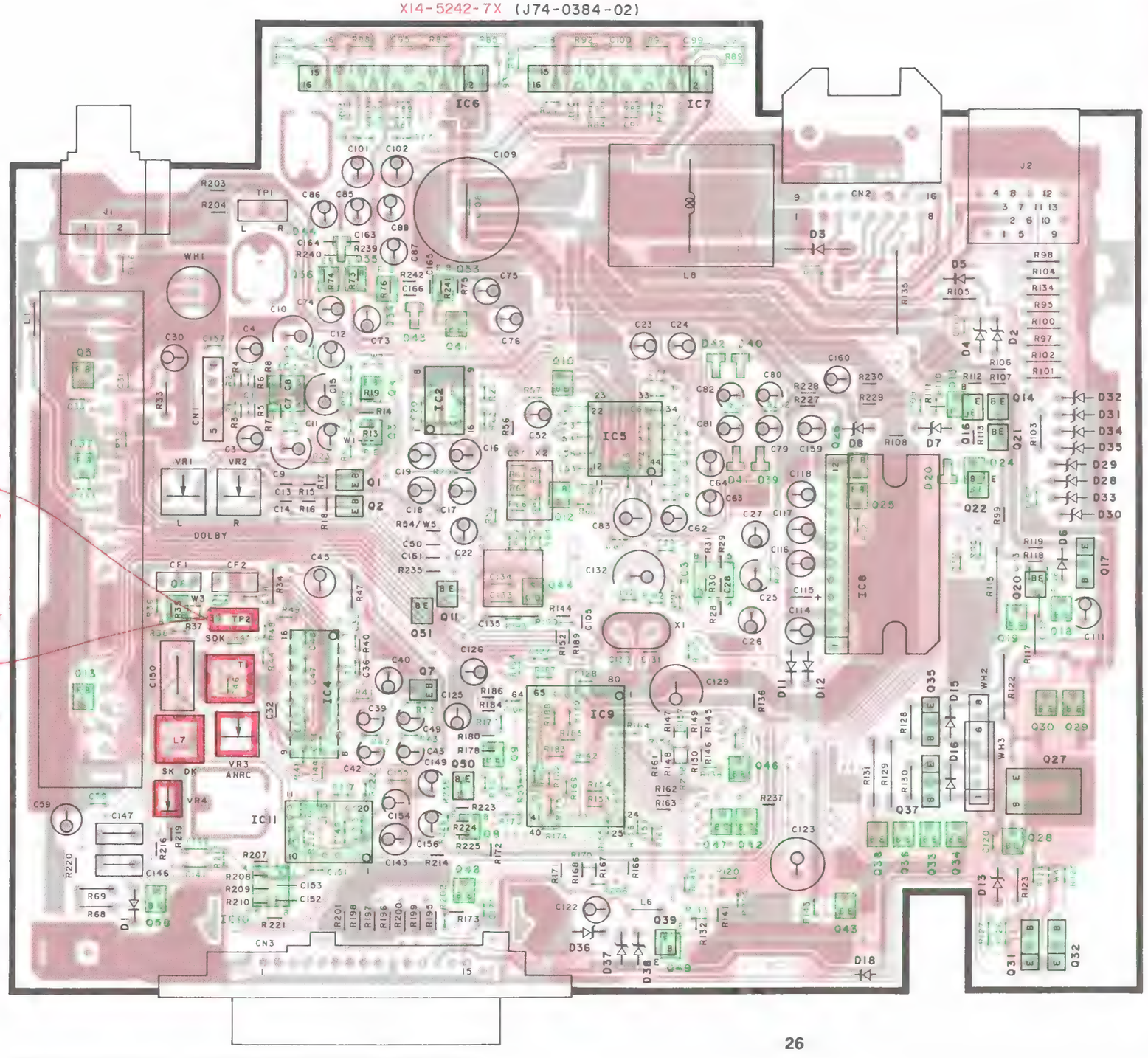
DK LEVEL : Max

Refer to the schematic diagram for the values of resistors and capacitors.

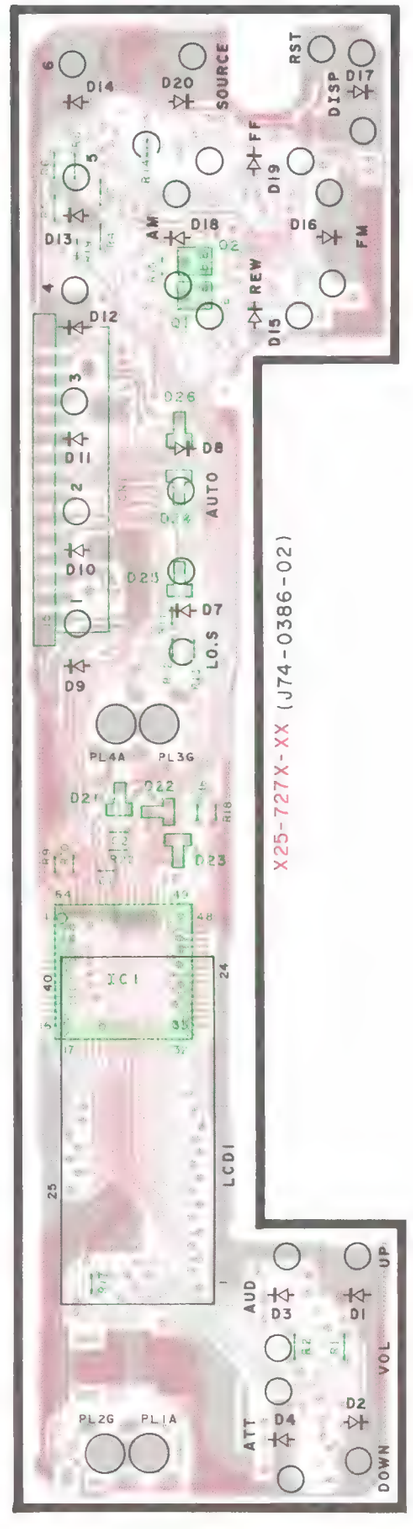
PC BOARD (FOIL SIDE VIEW)

SYNTHESIZER UNIT(X14-5242-XX) -70:356D, -71:356L, -72:356N
SYNTHESIZER UNIT(X14-5252-XX) -70:356L, -71:356N

X14-5242-7X (J74-0384-02)



SWITCH UNIT(X25-727X-XX)
0-10:356D/N, 2-71/2-72:356L, 2-73:356N



X25-727X-XX (J74-0386-02)

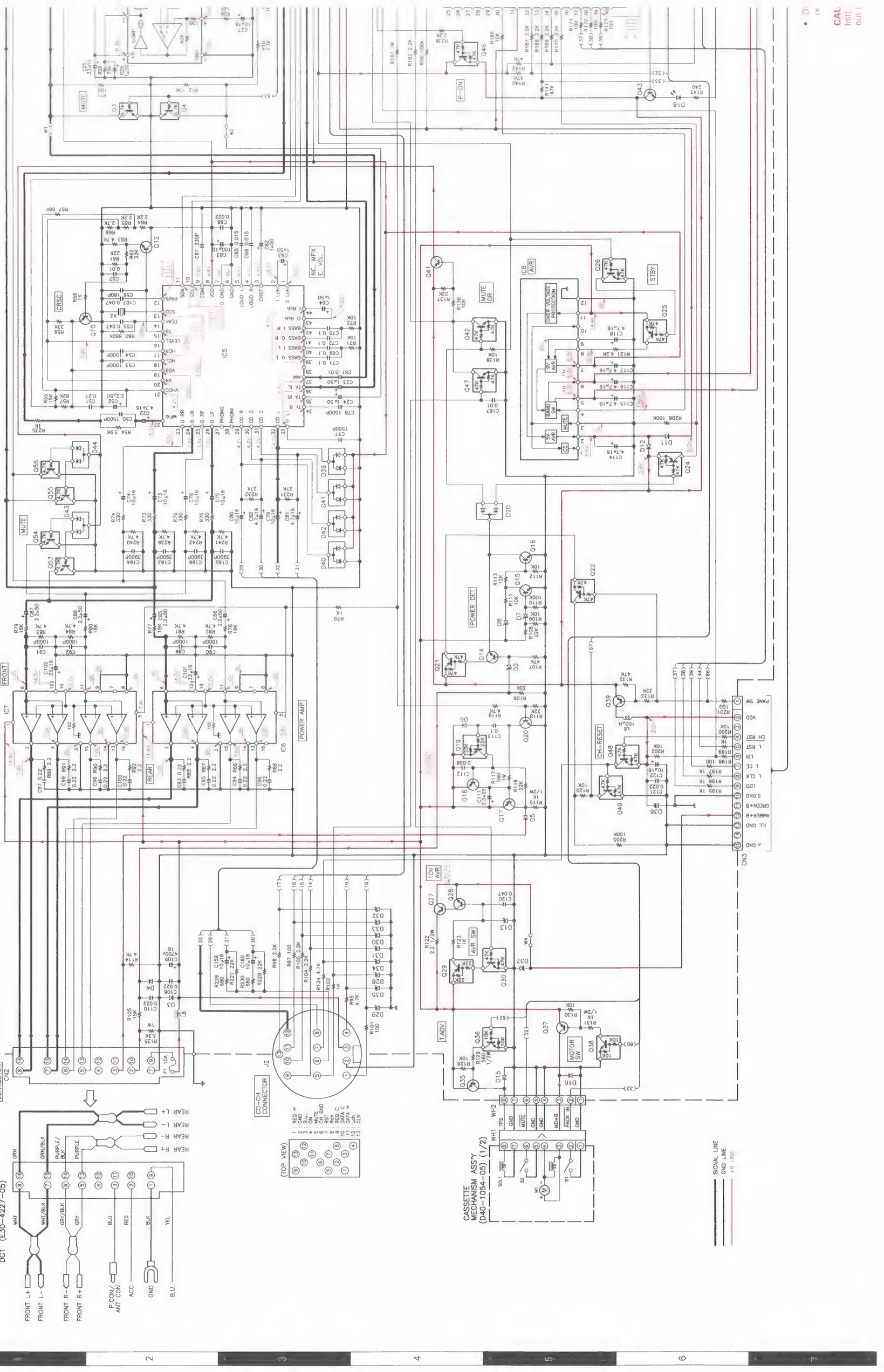
(X14-524X-XX)

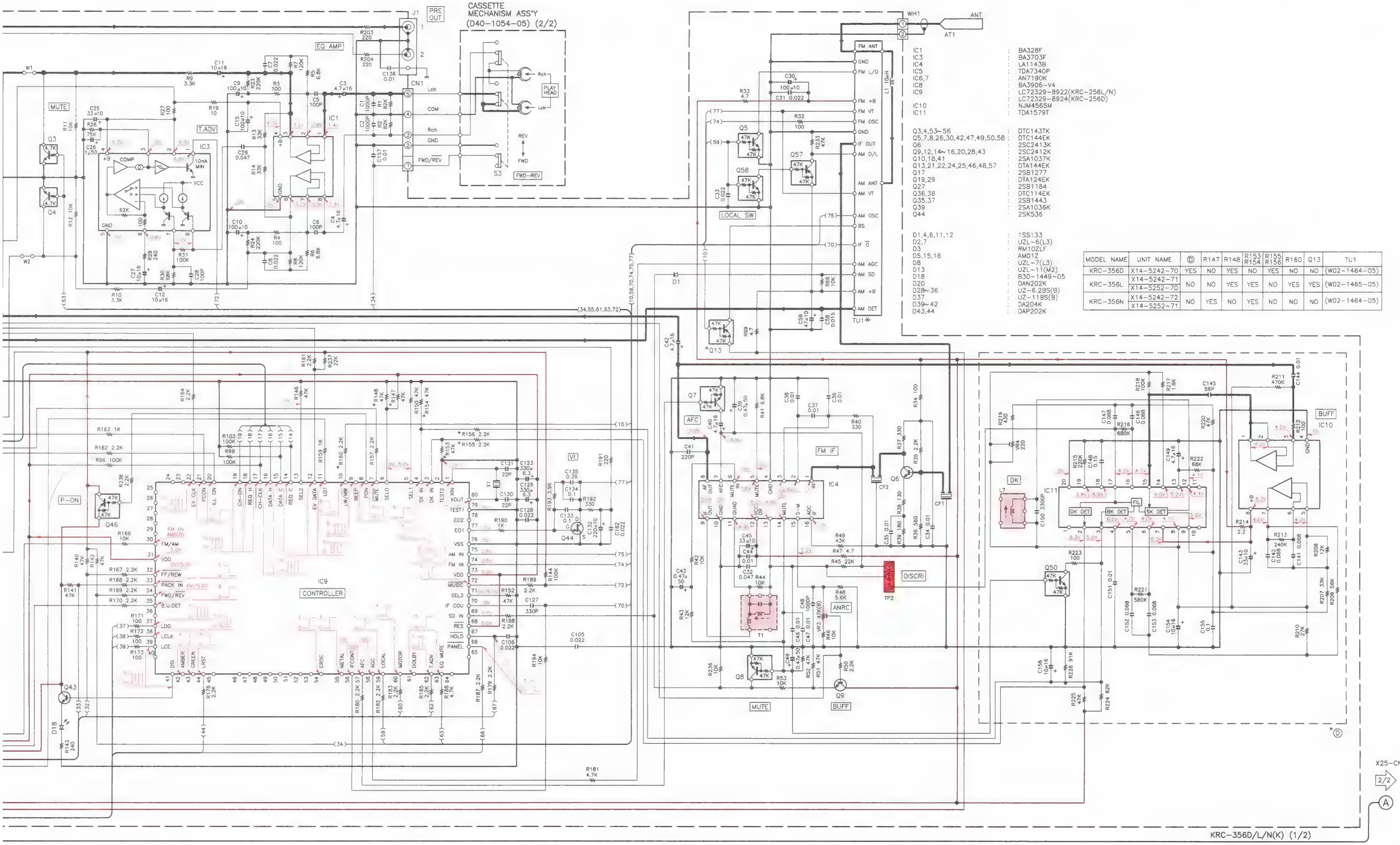
IC	Q	address
1		4M
3		5O
4		5M
5		4O
6		2N
7		2O
8		5P
9		6O
10		6M
11		6M
	3	4M
	4	4M
	5	4L
	6	5L
	7	5N
	8	6N
	9	6N
	10	4O
	12	4O
	13	5L
	14	4Q
	15	4Q
	16	4Q
	17	5Q
	18	5Q
	19	5Q
	20	5Q
	21	4Q
	22	4Q
	24	4Q
	25	4P
	26	4P
	27	6Q
	28	6Q
	29	5Q
	30	5Q
	35	5Q
	36	6P
	37	6P
	38	6P
	39	7O
	41	3N
	42	6P
	43	7P
	44	5N
	46	6P
	50	6N
	53	3N
	54	3N
	55	3M
	56	3M
	57	4L
	58	6L

(X25-727X-XX)

IC	Q	address
1		5R
	1	3S
	2	2S

Refer to the schematic diagram for the values of resistors and capacitors.


IC5
IC6
IC7
IC8 AVR
CN3
CN2
DC CONNECTOR
CD-CH CONNECTOR
J2
DC1 (E30-4227-05)
CASSETTE MECHANISM ASS'Y (D40-1054-05) (1/2)
(X14-524X-XX)
FRONT
REAR
POWER AMP
POWER DET
CH-RESET
OVER VOLTAGE PROTECTION
MUTE
STBY
P-ON
T.ADV
MOTOR SW
AVR SW
10V AVR
5V AVR
9V AVR
BAND SW
NC, MFX E. VOL
FRONT L+
FRONT L-
FRONT R-
FRONT R+
P.CON/ ANT CON
ACC
GND
B.U.
REAR L+
REAR L-
REAR R-
REAR R+
SIGNAL LINE
GND LINE
+B LINE



IC1	:	BA328F
IC3	:	BA3703F
IC4	:	LA1143B
IC5	:	TDA7340P
IC6,7	:	AN7190K
IC8	:	BA3906-V4
IC9	:	LC72329-8922(KRC-256L/N)
	:	LC72329-8924(KRC-256D)
IC10	:	NJM4565M
IC11	:	TDA1579T
Q3,4,53~56	:	DTC143TK
Q5,7,8,26,30,42,47,49,50,58	:	DTC144EK
Q6	:	2SC2413K
Q9,12,14~16,20,28,43	:	2SC2412K
Q10,18,41	:	2SA1037K
Q13,21,22,24,25,46,48,57	:	DTA144EK
Q17	:	2SB1277
Q19,29	:	DTA124EK
Q27	:	2SB1184
Q36,38	:	DTC114EK
Q35,37	:	2SB1443
Q39	:	2SA1036K
Q44	:	2SK536
D1,4,6,11,12	:	1SS133
D2,7	:	UZL-6(L3)
D3	:	RM10ZLF
D5,15,16	:	AM01Z
D8	:	UZL-7(L3)
D13	:	UZL-11(M2)
D18	:	B30-1449-05
D20	:	DAN202K
D28~36	:	UZ-6.2BS(B)
D37	:	UZ-11BS(B)
D39~42	:	DA204K
D43,44	:	DAP202K

MODEL NAME	UNIT NAME	Ⓓ	R147	R148	R153 R154	R155 R156	R160	Q13	TU1
KRC-356D	X14-5242-70	YES	NO	YES	NO	YES	NO	NO	(W02-1464-05)
KRC-356L	X14-5242-71	NO	NO	YES	YES	NO	YES	YES	(W02-1465-05)
	X14-5252-70								
KRC-356N	X14-5242-72	NO	YES	NO	YES	NO	NO	NO	(W02-1464-05)
	X14-5252-71								

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

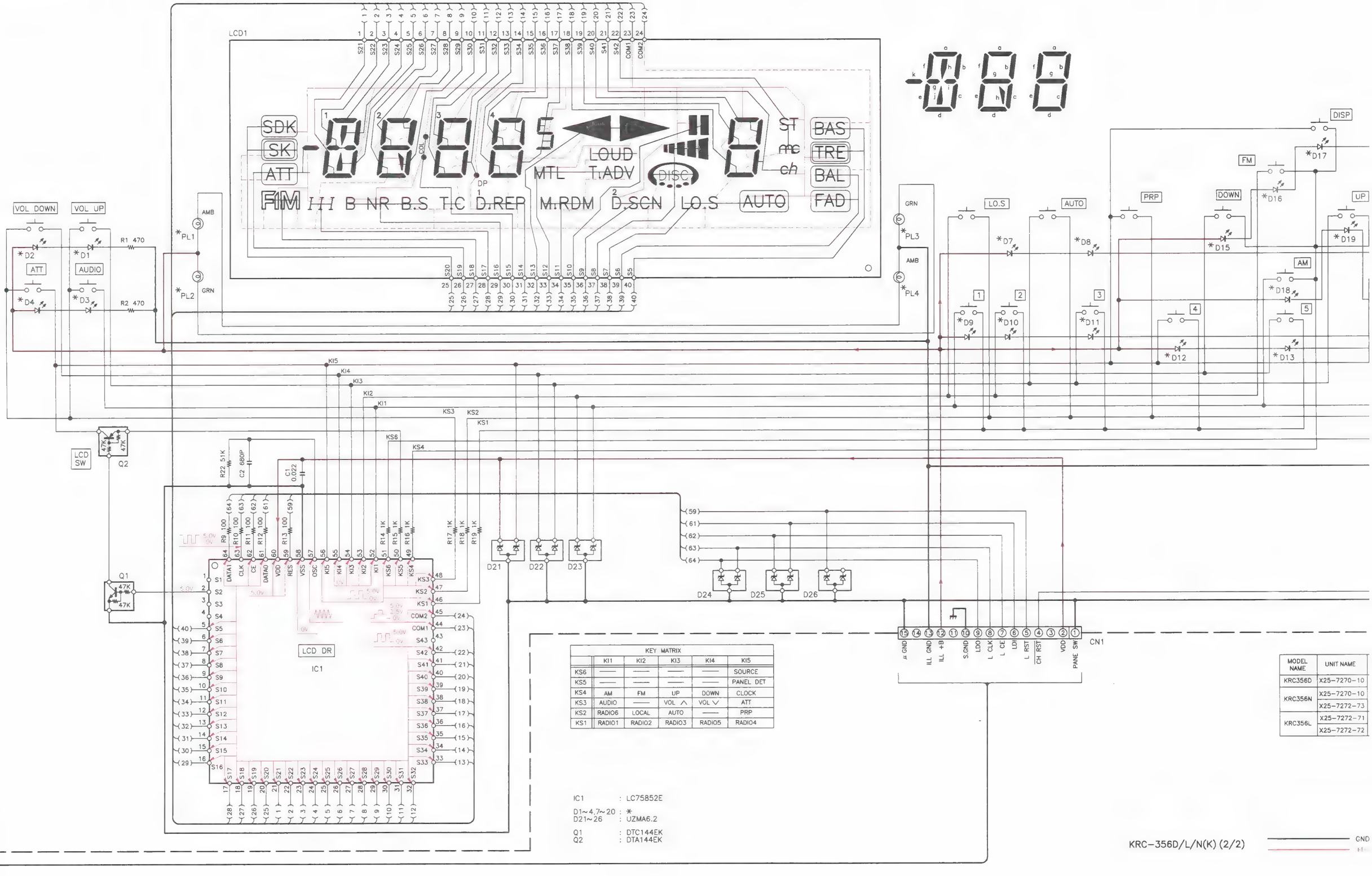
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y36-1962-71

KRC-356D/L/N

KENWOOD

(X25-727X-XX)



KEY MATRIX	KI1	KI2	KI3	KI4	KI5
KS6	——	——	——	——	SOURCE
KS5	——	——	——	——	PANEL DET
KS4	AM	FM	UP	DOWN	CLOCK
KS3	AUDIO	——	VOL ∧	VOL ∨	ATT
KS2	RADIO6	LOCAL	AUTO	——	PRP
KS1	RADIO1	RADIO2	RADIO3	RADIO5	RADIO4

IC1 : LC75852E

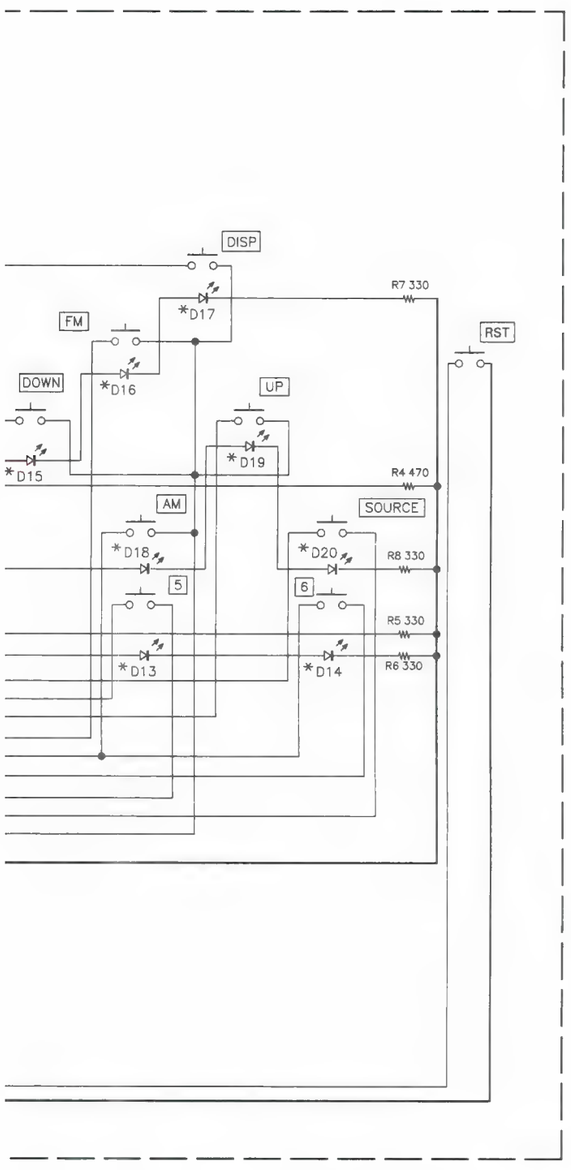
D1~4,7~20 : *
D21~26 : UZMA6.2

Q1 : DTC144EK
Q2 : DTA144EK

MODEL NAME	UNIT NAME
KRC356D	X25-7270-10
KRC356N	X25-7270-10
	X25-7272-73
KRC356L	X25-7272-71
	X25-7272-72

KRC-356D/L/N(K) (2/2)

GND



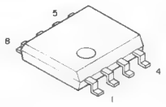
MODEL NAME	UNIT NAME	PL1,4(AMB)	PL2,3(GRN)	D1~4,7~20
KRC356D	X25-7270-10	NO	B30-1306-05	B30-1395-05
KRC356N	X25-7270-10			
	X25-7272-73			
KRC356L	X25-7272-71	B30-1305-05	NO	B30-1371-05
	X25-7272-72			

) (2/2)

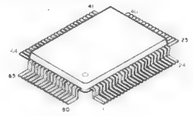
GND LINE
+B LINE

DTA124EK DTC114EK DTC144EK 2SA1037K 2SC2413K
DTA144EK DTC143TK 2SA1036K 2SC2412K

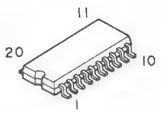
BA328F BA3703F NJM4565M



LC72329-8922 LC72329-8924



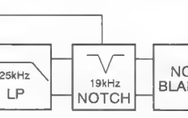
TDA1579T



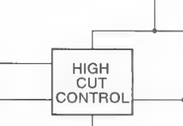
2SB1184

DA204K

TDA7340P



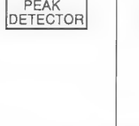
LC75852E



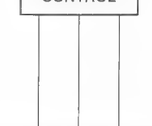
2SB1277 2SB1443

2SK536

AN7190K



BA3906-V4



LA1143B

TDA7340P

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

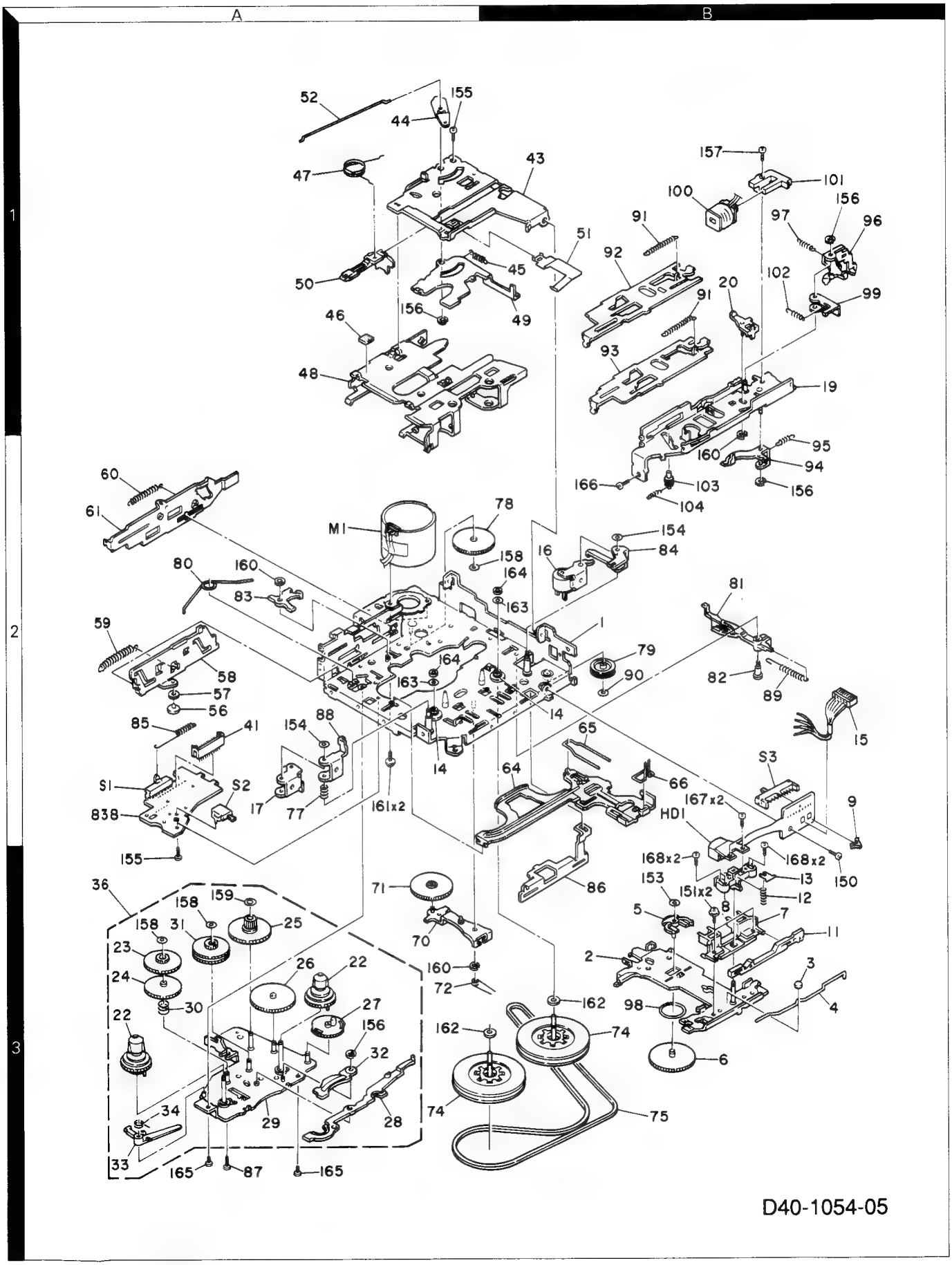
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y36-1962-71

KRC-356D/L/N

KENWOOD

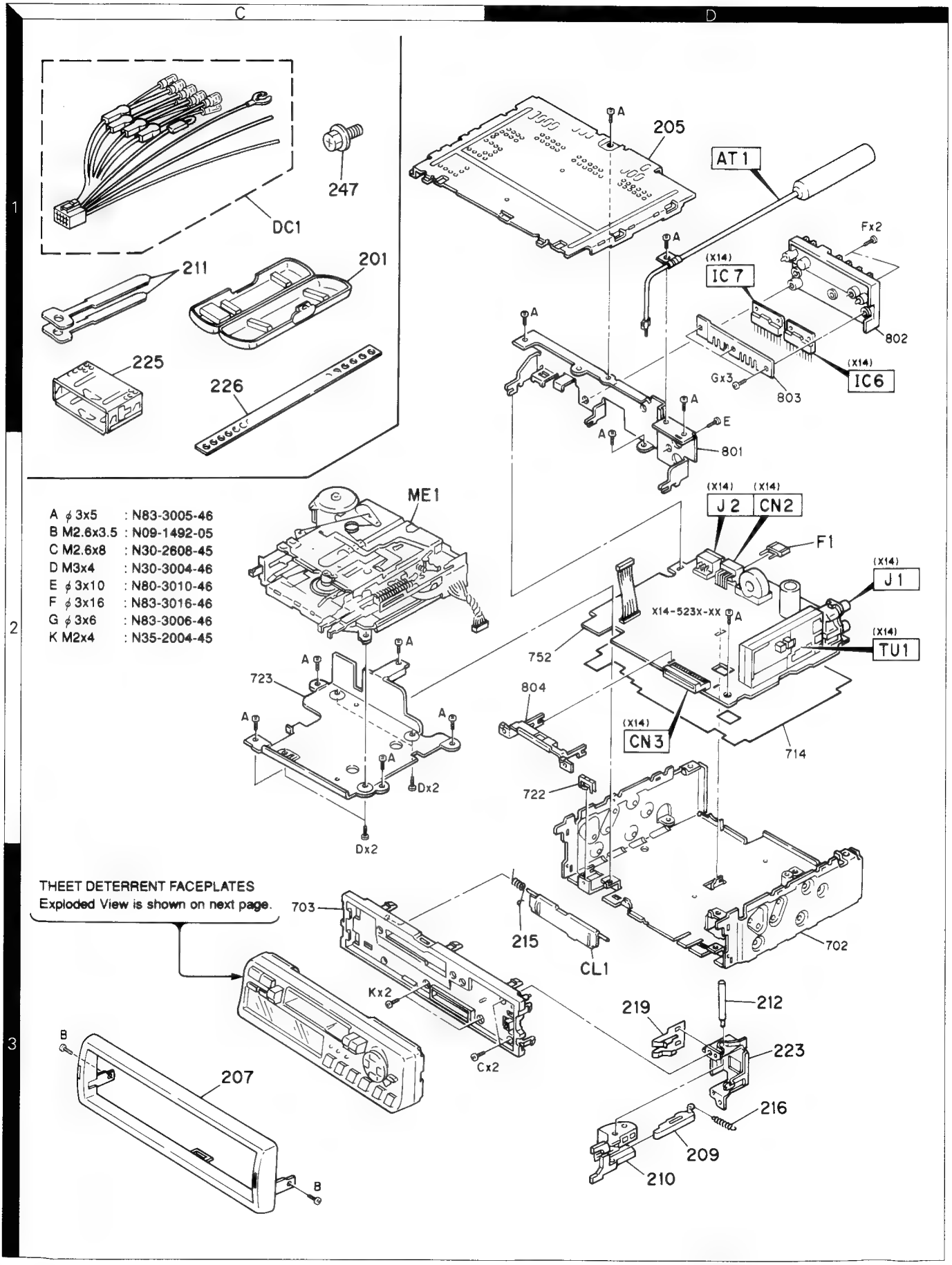
EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

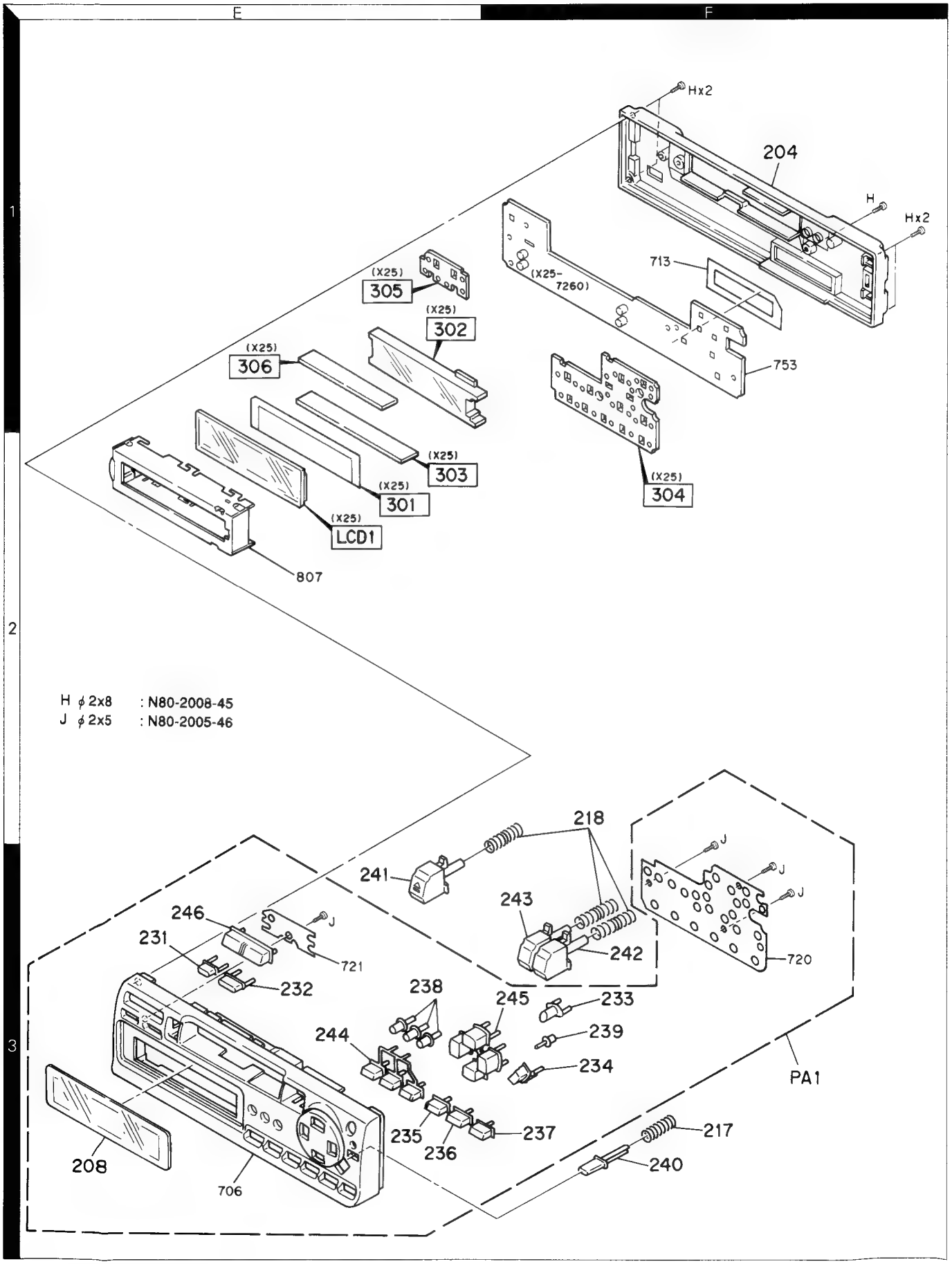
KRC-356D/L/N

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

KRC-356D/L/N

PARTS LIST

× New Parts
Parts without **Parts No.** are not supplied.
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Ref No. 参照番号		New 新	Parts No. 部品番号	Description 部品名／規格	
KRC-356D/L/N					
201	1C	*	A02-1443-03	PLASTIC CABINET ASSY	
204	1F	*	A46-1232-01	REAR COVER	
205	1D	*	A52-0679-02	TOP COVER	
CL1	3D	*	A53-1600-03	CASSETTE LID	
PA1	3E	*	A64-0380-02	PANEL ASSY (KRC-356D)	E
PA1	3E	*	A64-0381-02	PANEL ASSY (KRC-356L)	E
PA1	3E	*	A64-0382-02	PANEL ASSY (KRC-356N)	E
207	3C	*	B07-2057-02	ESCUTCHEON	
208	3E	*	B10-1593-03	FRONT GLASS	
-			B46-0100-30	WARRANTY CARD	
-			B46-0182-14	ID CARD (KRC-356D)	E
-			B46-0606-04	ID CARD (KRC-356L,N)	E3E5
-			B58-1223-04	CAUTION CARD (CH)	
-			B58-1225-04	CAUTION CARD (CH)(KRC-356L,N)	E3E5
-		*	B64-0466-00	INST.MANUAL (E) (KRC-356L)	E
-		*	B64-0467-00	INST.MANUAL (F,G) (KRC-356D,L)	E1E3
-		*	B64-0468-00	INST.MANUAL (D) (KRC-356L)	E
-		*	B64-0469-00	INST.MANUAL (I)	
-		*	B64-0470-00	INST.MANUAL (S) (KRC-356N)	E
209	3D		D10-2837-03	LEVER	
210	3D		D10-2838-03	LEVER	
211	1C		D10-2984-04	LEVER	
212	3D		D21-2142-04	SHAFT	
ME1	2C		D40-1054-05	CASSETTE MECHANISM ASSY	
⚠ DC1	1C	*	E30-4227-05	DC CORD	
⚠ F1	2D	*	F52-0006-05	FUSE(MINI BLADE TYPE) (10A)	
215	3D		G01-2525-04	TORSION COIL SPRING	
216	3D	*	G01-2710-04	EXTENSION SPRING	
217	3F	*	G01-2711-04	COMPRESSION SPRING	
218	3F	*	G01-2726-04	COMPRESSION SPRING	
219	3D	*	G02-1191-03	FLAT SPRING	
-		*	H10-4489-02	POLYSTYRENE FOAMED FIXTURE	
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	E1E5
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-			H25-1111-04	PROTECTION BAG (280X450X0.03)	E
-		*	H54-0290-04	ITEM CARTON CASE (KRC-356D)	E
-		*	H54-0292-04	ITEM CARTON CASE (KRC-356L)	E
-		*	H54-0294-04	ITEM CARTON CASE (KRC-356N)	E
-		*	H64-0326-04	OUTER CARTON CASE (KRC-356D)	E
-		*	H64-0328-04	OUTER CARTON CASE (KRC-356L)	E
-		*	H64-0330-04	OUTER CARTON CASE (KRC-356N)	E
224	3D	*	J21-7545-03	MOUNTING HARDWARE	
225	1C		J21-7564-13	MOUNTING HARDWARE ASSY	
231	3E	*	K24-1552-04	KNOB (ATT)	
232	3E	*	K24-1553-04	KNOB (AUD)	
233	3F	*	K24-1554-04	KNOB (DISP)	
234	3F	*	K24-1555-04	KNOB (SRC)	
235	3E	*	K24-1556-03	KNOB (4)	
236	3E	*	K24-1557-03	KNOB (5)	
237	3E	*	K24-1558-03	KNOB (6)	
238	3E	*	K24-1559-04	KNOB (AUTO)	
239	3F	*	K24-1560-04	KNOB (RESET)	
240	3F	*	K24-1561-04	KNOB (RELEASE)	
241	3E	*	K24-1562-04	KNOB (EJECT)	
242	3F	*	K24-1563-04	KNOB (FF)	
243	3F	*	K24-1564-04	KNOB (REW)	
244	3E	*	K25-0659-03	KNOB (1,2,3)	
245	3E	*	K25-0660-03	KNOB (FM,AM,TUNE)	
246	3E	*	K25-0661-03	KNOB (VOL)	
247	1C		N09-1885-05	SEMS (MACHINE SCREW)	
A	1D		N83-3005-46	PAN HEAD TAPTITE SCREW	
B	3C		N09-1492-05	MACHINE SCREW (2.6X3.5,PAN)	
C	3C		N30-2608-45	PAN HEAD MACHINE SCREW	
D	2C		N30-3004-46	PAN HEAD MACHINE SCREW	
H	1F		N80-2008-45	PAN HEAD TAPTITE SCREW	
J	3F		N80-2005-46	PAN HEAD TAPTITE SCREW	
K	3C		N35-2004-45	BINDING HEAD MACHINE SCREW	

SYNTHESIZER UNIT (X14-524X-XX) 2-70: KRC-356D 2-71 : KRC-356L 2-72KRC-356N

D18		*	B30-1449-05	LED	
C1	,2		CK73FB1H102K	CHIP C	1000PF K
C3	,4		CE04CW1C4R7M	ELECTRO	4.7UF 16WV
C5	,6		CC73FCH1H101J	CHIP C	100PF J
C7	,8		CK73FB1H223KTA	CHIP C	0.022UF K
C9	,10		CE04CW1A101M	ELECTRO	100UF 10WV
C11	,12		CE04CW1C100M	ELECTRO	10UF 16WV
C15			CE04CW1A101M	ELECTRO	100UF 10WV
C22			CE04CW1C4R7M	ELECTRO	4.7UF 16WV
C23	,24		CE04CW1H010M	ELECTRO	1.0UF 50WV
C25			CE04CW1A330M	ELECTRO	33UF 10WV
C26			CE04CW1H010M	ELECTRO	1.0UF 50WV
C27			CE04CW1C100M	ELECTRO	10UF 16WV
C28			CC73FCH1H101J	CHIP C	100PF J
C29			CK73FB1H473KTA	CHIP C	0.047UF K
C30			CE04DW1A101M	ELECTRO	100UF 10WV
C31			CK73FB1H223KTA	CHIP C	0.022UF K
C32			CK73FB1H473KTA	CHIP C	0.047UF K
C33			CK73FB1H223KTA	CHIP C	0.022UF K
C34	-38		CK73FB1H103K	CHIP C	0.010UF K
C39			CE04CW1HR47M	ELECTRO	0.47UF 50WV
C40			CE04CW1C4R7M	ELECTRO	4.7UF 16WV
C41			CK73FB1H221K	CHIP C	220PF K
C42			CE04CW1C4R7M	ELECTRO	4.7UF 16WV
C43			CE04CW1HR47M	ELECTRO	0.47UF 50WV
C44			CK73FB1H103K	CHIP C	0.010UF K
C45			CE04CW1A330M	ELECTRO	33UF 10WV
C46	,47		CK73FB1H103K	CHIP C	0.010UF K
C48			CK73FB1H102K	CHIP C	1000PF K
C49			CE04CW1HR47M	ELECTRO	0.47UF 50WV
C50			CK73FB1H152K	CHIP C	1500PF K
C51		*	CK73EB1E274K	CHIP C	0.27UF K
C52			CE04CW1H2R2M	ELECTRO	2.2UF 50WV
C53	,54		CK73FB1H102K	CHIP C	1000PF K
C55			CK73FB1H473KTA	CHIP C	0.047UF K
C56			CC73FCH1H181J	CHIP C	180PF J

E: Europe **W**: Without Europe **P**: Canada **X**: Australia
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⚠ indicates safety critical components.

PARTS LIST

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SYNTHESIZER UNIT (X14-524X-XX) 2-70: KRC-356D 2-71 : KRC-356L 2-72KRC-356N

Ref No. 参照番号	New 新	Parts No. 部品番号	Description 部品名／規格			
C57		CK73FB1H103K	CHIP C	0.010UF	K	
C58		CK73FB1H153KTA	CHIP C	0.015UF	K	
C59		CE04NW1A470M	ELECTRO	47UF	10WV	
C61		CK73FB1H103K	CHIP C	0.010UF	K	
C62 -64		CE04CW1H010M	ELECTRO	1.0UF	50WV	
C65 ,66		CK73FB1H153KTA	CHIP C	0.015UF	K	
C67		CK73FB1H331K	CHIP C	330PF	K	
C68		CK73FB1H223KTA	CHIP C	0.022UF	K	
C69 -72		CK73FB1C104K	CHIP C	0.10UF	K	
C73 -76		CE04CW1C100M	ELECTRO	10UF	16WV	
C77 ,78		CK73FB1H152K	CHIP C	1500PF	K	
C79 ,80		CE04CW1C100M	ELECTRO	10UF	16WV	
C81 ,82		CE04CW1C4R7M	ELECTRO	4.7UF	16WV	
C83		CE04CW1A101M	ELECTRO	100UF	10WV	
C85 -88		CE04CW1H2R2M	ELECTRO	2.2UF	50WV	
C89 -92		CK73FB1H102K	CHIP C	1000PF	K	
C93 -100		CK73EB1E224K	CHIP C	0.22UF	K	
C101,102		C90-2681-05	ELECTRO	33UF	16WV	
C105,106		CK73FB1H223KTA	CHIP C	0.022UF	K	
C107		CK73FB1H473KTA	CHIP C	0.047UF	K	
C108		CK73FB1H223KTA	CHIP C	0.022UF	K	
C109	*	C90-2835-05	ELECTRO	4700UF	16WV	
C110		CK73FB1H223KTA	CHIP C	0.022UF	K	
C111		CE04DW1E3R3M	ELECTRO	3.3UF	25WV	
C112		CK73EB1H683K	CHIP C	0.068UF	K	
C113		CK73FB1C104K	CHIP C	0.10UF	K	
C114		CE04CW1C4R7M	ELECTRO	4.7UF	16WV	
C115		C92-0009-05	CHIP-TAN	4.7UF	10WV	
C116-118		CE04CW1C4R7M	ELECTRO	4.7UF	16WV	
C120		CK73FB1H473KTA	CHIP C	0.047UF	K	
C121		CK73FB1H223KTA	CHIP C	0.022UF	K	
C122		CE04CW1C100M	ELECTRO	10UF	16WV	
C123		CE04CW0J331M	ELECTRO	330UF	6.3WV	
C127		CK73FB1H331K	CHIP C	330PF	K	
C128		CK73FB1H223KTA	CHIP C	0.022UF	K	
C129		CE04CW0J331M	ELECTRO	330UF	6.3WV	
C130,131		CC73FCH1H220J	CHIP C	22PF	J	
C132		CE04CW1A221M	ELECTRO	220UF	10WV	
C133,134		C93-1032-05	CERAMIC	0.10UF	K	
C135		CF92V1H394J	MF-C	0.39UF	J	
C136		CK73FB1H103K	CHIP C	0.010UF	K	
C141,142		C93-0026-05	CHIP C	0.068UF	50WV	E
C143		CE04CW1A330M	ELECTRO	33UF	10WV	E
C144		CK73FB1H103K	CHIP C	0.010UF	K	E
C145		CC73FCH1H560J	CHIP C	56PF	J	E
C146,147		C91-2050-05	CERAMIC	0.068UF	Z	E
C148		C93-0024-05	CERAMIC	0.15UF	16WV	E
C149		CE04CW1C4R7M	ELECTRO	4.7UF	16WV	E
C150		CQ93AP2A332J	POLYPRO	3300PF	J	E
C151		CK73FB1H103K	CHIP C	0.010UF	K	E
C152,153		C93-0026-05	CHIP C	0.068UF	50WV	E
C154		CE04CW1C100M	ELECTRO	10UF	16WV	E
C155		CK73FB1C104K	CHIP C	0.10UF	K	E
C156		CE04CW1C100M	ELECTRO	10UF	16WV	E
C157		CK73FB1H103K	CHIP C	0.010UF	K	

Ref No. 参照番号	New 新	Parts No. 部品番号	Description 部品名／規格			
C159,160		CE04CW1C100M	ELECTRO	10UF	16WV	
C162		CK73FB1H223KTA	CHIP C	0.022UF	K	
C163-166		CK73FB1H392K	CHIP C	3900PF	K	
C167		CK73FB1H103K	CHIP C	0.010UF	K	
AT1 1D		E30-4205-05	CORD WITH PLUG			
CN1		E40-3240-05	PIN ASSY			
CN2	*	E58-0836-05	RECTANGULAR RECEPTACLE			
CN3	*	E58-0839-05	RECTANGULAR RECEPTACLE			
J1		E13-0235-05	PHONO JACK			
J2		E56-0809-05	CYLINDRICAL RECEPTACLE			
TP2		E40-9184-05	PIN ASSY			
WH2	*	E39-0090-05	WIRING HARNESS			
CF1 ,2		L72-0716-05	CERAMIC FILTER			
L1		L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)			
L6		L40-1011-17	SMALL FIXED INDUCTOR			
L7		L39-0156-05	TRAP COIL			E
L8		L33-1021-05	CHOKE COIL			
T1		L30-0462-15	FM IFT			
X1		L77-1163-05	CRYSTAL RESONATOR(4.5M)			
X1		L77-1165-05	CRYSTAL RESONATOR(4.5MHZ)			
X1		L77-2025-05	CRYSTAL RESONATOR			
X2		L78-0520-05	RESONATOR			
A 1D		N83-3005-46	PAN HEAD TAPTITE SCREW			
E 1D		N80-3010-46	PAN HEAD TAPTITE SCREW			
F 1D		N83-3016-46	PAN HEAD TAPTITE SCREW			
G 1D		N83-3006-46	PAN HEAD TAPTITE SCREW			
R1 ,2		RK73FB2A823J	CHIP R	82K	J	1/10W
R3 ,4		RK73FB2A101J	CHIP R	100	J	1/10W
R5 ,6		RK73FB2A682J	CHIP R	6.8K	J	1/10W
R7 ,8		RK73FB2A124J	CHIP R	120K	J	1/10W
R9 ,10		RK73FB2A332J	CHIP R	3.3K	J	1/10W
R11 ,12		RK73FB2A103J	CHIP R	10K	J	1/10W
R13 ,14		RK73FB2A333J	CHIP R	33K	J	1/10W
R19		RK73FB2A100J	CHIP R	10	J	1/10W
R23 ,24		RK73FB2A224J	CHIP R	220K	J	1/10W
R27		RK73FB2A101J	CHIP R	100	J	1/10W
R28		RK73FB2A753J	CHIP R	75K	J	1/10W
R29		RK73FB2A241J	CHIP R	240	J	1/10W
R30		RK73FB2A683J	CHIP R	68K	J	1/10W
R31		RK73FB2A104J	CHIP R	100K	J	1/10W
R32		RK73FB2A101J	CHIP R	100	J	1/10W
R35		RK73FB2A222J	CHIP R	2.2K	J	1/10W
R36		RK73FB2A561J	CHIP R	560	J	1/10W
R37		RK73FB2A331J	CHIP R	330	J	1/10W
R38		RK73FB2A131J	CHIP R	130	J	1/10W
R39		RK73FB2A181J	CHIP R	180	J	1/10W
R40		RK73FB2A331J	CHIP R	330	J	1/10W
R41		RK73FB2A682J	CHIP R	6.8K	J	1/10W
R42		RK73FB2A103J	CHIP R	10K	J	1/10W
R43		RK73FB2A123J	CHIP R	12K	J	1/10W
R44		RK73FB2A103J	CHIP R	10K	J	1/10W
R45		RK73FB2A223J	CHIP R	22K	J	1/10W
R46		RK73FB2A103J	CHIP R	10K	J	1/10W
R48		RK73FB2A562J	CHIP R	5.6K	J	1/10W

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⚠ indicates safety critical components.

KRC-356D/L/N

PARTS LIST

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SYNTHESIZER UNIT (X14-524X-XX) 2-70: KRC-356D 2-71 : KRC-356L 2-72KRC-356N

Ref No. 参照番号	New 新	Parts No. 部品番号	Description 部品名／規格	
R49		RK73FB2A433J	CHIP R 43K J 1/10W	
R50		RK73FB2A222J	CHIP R 2.2K J 1/10W	
R51 ,52		RK73FB2A473J	CHIP R 47K J 1/10W	
R53		RK73FB2A103J	CHIP R 10K J 1/10W	
R54		RK73FB2A392J	CHIP R 3.9K J 1/10W	
R55		RK73FB2A153J	CHIP R 15K J 1/10W	
R56		RK73FB2A333J	CHIP R 33K J 1/10W	
R57		RK73FB2A823J	CHIP R 82K J 1/10W	
R58		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R60		RK73FB2A684J	CHIP R 680K J 1/10W	
R61		RK73FB2A223J	CHIP R 22K J 1/10W	
R62		RK73FB2A333J	CHIP R 33K J 1/10W	
R63		RK73FB2A472J	CHIP R 4.7K J 1/10W	
R64 ,65		RK73FB2A222J	CHIP R 2.2K J 1/10W	
R66		RK73FB2A272J	CHIP R 2.7K J 1/10W	
R67		RK73FB2A683J	CHIP R 68K J 1/10W	
R70		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R71 ,72		RK73FB2A103J	CHIP R 10K J 1/10W	
R73 -76		RK73FB2A331J	CHIP R 330 J 1/10W	
R77 -80		RK73FB2A183J	CHIP R 18K J 1/10W	
R81 -84		RK73FB2A472J	CHIP R 4.7K J 1/10W	
R85 -92		RK73EB2B2R2J	CHIP R 2.2 J 1/8W	
R96		RK73FB2A104J	CHIP R 100K J 1/10W	
R99		RK73FB2A104J	CHIP R 100K J 1/10W	
R106		RK73FB2A333J	CHIP R 33K J 1/10W	
R107		RK73FB2A473J	CHIP R 47K J 1/10W	
R108		RK73FB2A223J	CHIP R 22K J 1/10W	
R109		RK73FB2A103J	CHIP R 10K J 1/10W	
R110		RK73FB2A104J	CHIP R 100K J 1/10W	
R111,112		RK73FB2A103J	CHIP R 10K J 1/10W	
R113		RK73FB2A123J	CHIP R 12K J 1/10W	
R114		RK73FB2A472J	CHIP R 4.7K J 1/10W	
R115		RD14DB2H102J	SMALL-RD 1.0K J 1/2W	
R116		RK73FB2A223J	CHIP R 22K J 1/10W	
R117		R92-0366-05	CHIP R 560 J 1W	
R118		RK73FB2A223J	CHIP R 22K J 1/10W	
R119		RK73FB2A472J	CHIP R 4.7K J 1/10W	
R120		RK73FB2A103J	CHIP R 10K J 1/10W	
R121		RK73FB2A622J	CHIP R 6.2K J 1/10W	
R122		RD14DB2H2R2J	SMALL-RD 2.2 J 1/2W	
R129		RD14DB2H561J	SMALL-RD 560 J 1/2W	
R131		RD14DB2H102J	SMALL-RD 1.0K J 1/2W	
R132		RK73FB2A473J	CHIP R 47K J 1/10W	
R133		RK73FB2A223J	CHIP R 22K J 1/10W	
R135		RS14DB3A332J	FL-PROOF RS 3.3K J 1W	
R136		RK73FB2A103J	CHIP R 10K J 1/10W	
R137		RK73FB2A223J	CHIP R 22K J 1/10W	
R138		RK73FB2A103J	CHIP R 10K J 1/10W	
R140-142		RK73FB2A473J	CHIP R 47K J 1/10W	
R143		RK73FB2A241J	CHIP R 240 J 1/10W	
R144		RK73FB2A104J	CHIP R 100K J 1/10W	
R146		RK73FB2A473J	CHIP R 47K J 1/10W	E1E3
R146,147		RK73FB2A473J	CHIP R 47K J 1/10W	E
R148		RK73FB2A473J	CHIP R 47K J 1/10W	E1E3
R150		RK73FB2A473J	CHIP R 47K J 1/10W	

Ref No. 参照番号	New 新	Parts No. 部品番号	Description 部品名／規格	
R152		RK73FB2A473J	CHIP R 47K J 1/10W	E
R152-154		RK73FB2A473J	CHIP R 47K J 1/10W	E3E5
R155-157		RK73FB2A222J	CHIP R 2.2K J 1/10W	E
R157		RK73FB2A222J	CHIP R 2.2K J 1/10W	E3E5
R159		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R160-162		RK73FB2A222J	CHIP R 2.2K J 1/10W	E
R161,162		RK73FB2A222J	CHIP R 2.2K J 1/10W	E1E5
R163		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R164		RK73FB2A222J	CHIP R 2.2K J 1/10W	
R166		RK73FB2A103J	CHIP R 10K J 1/10W	
R167-170		RK73FB2A222J	CHIP R 2.2K J 1/10W	
R171-173		RK73FB2A101J	CHIP R 100 J 1/10W	
R176		RK73FB2A222J	CHIP R 2.2K J 1/10W	
R179,180		RK73FB2A222J	CHIP R 2.2K J 1/10W	
R181		RK73FB2A472J	CHIP R 4.7K J 1/10W	
R182,183		RK73FB2A222J	CHIP R 2.2K J 1/10W	
R185		RK73FB2A222J	CHIP R 2.2K J 1/10W	
R186		RK73FB2A472J	CHIP R 4.7K J 1/10W	
R187-189		RK73FB2A222J	CHIP R 2.2K J 1/10W	
R190		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R191		RK73FB2A221J	CHIP R 220 J 1/10W	
R192		RK73FB2A331J	CHIP R 330 J 1/10W	
R193		RK73FB2A392J	CHIP R 3.9K J 1/10W	
R194		RK73FB2A103J	CHIP R 10K J 1/10W	
R195-197		RK73EB2B102J	CHIP R 1.0K J 1/8W	
R198		RK73EB2B101J	CHIP R 100 J 1/8W	
R199		RK73EB2B102J	CHIP R 1.0K J 1/8W	
R200		RK73EB2B103J	CHIP R 10K J 1/8W	
R201		RK73EB2B101J	CHIP R 100 J 1/8W	
R202		RK73FB2A103J	CHIP R 10K J 1/10W	
R203,204		RK73FB2A221J	CHIP R 220 J 1/10W	
R205,206		RK73FB2A104J	CHIP R 100K J 1/10W	
R207		RK73FB2A333J	CHIP R 33K J 1/10W	E
R208		RK73FB2A123J	CHIP R 12K J 1/10W	E
R209		RK73FB2A563J	CHIP R 56K J 1/10W	E
R210		RK73FB2A273J	CHIP R 27K J 1/10W	E
R211		RK73FB2A474J	CHIP R 470K J 1/10W	E
R212		RK73FB2A101J	CHIP R 100 J 1/10W	E
R213		RK73FB2A244J	CHIP R 240K J 1/10W	E
R214		RK73FB2A2R2J	CHIP R 2.2 J 1/10W	E
R215		RK73FB2A224J	CHIP R 220K J 1/10W	E
R216		RK73FB2A684J	CHIP R 680K J 1/10W	E
R217		RK73FB2A182J	CHIP R 1.8K J 1/10W	E
R218		RK73FB2A104J	CHIP R 100K J 1/10W	E
R219		RK73FB2A431J	CHIP R 430 J 1/10W	E
R220		RK73FB2A473J	CHIP R 47K J 1/10W	E
R221		RK73FB2A564J	CHIP R 560K J 1/10W	E
R222		RK73FB2A683J	CHIP R 68K J 1/10W	E
R223		RK73FB2A101J	CHIP R 100 J 1/10W	E
R224		RK73FB2A623J	CHIP R 62K J 1/10W	E
R225		RK73FB2A473J	CHIP R 47K J 1/10W	E
R226		RK73FB2A913J	CHIP R 91K J 1/10W	E
R227,228		RK73FB2A223J	CHIP R 22K J 1/10W	
R229,230		RK73FB2A681J	CHIP R 680 J 1/10W	
R231,232		RK73FB2A273J	CHIP R 27K J 1/10W	

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PARTS LIST

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Ref No. 参照番号	New 新	Parts No. 部品番号	Description 部品名／規格
R233		RK73FB2A473J	CHIP R 47K J 1/10W
R235		RK73FB2A102J	CHIP R 1.0K J 1/10W
R236		RK73FB2A103J	CHIP R 10K J 1/10W
R237		RK73FB2A223J	CHIP R 22K J 1/10W
R238		RK73FB2A222J	CHIP R 2.2K J 1/10W
R239-242		RK73FB2A472J	CHIP R 4.7K J 1/10W
VR3		R12-3688-05	TRIMMING POT.(47K ﾌﾞ)
VR4		R12-6413-05	TRIMMING POT.(220) E
W1 ,2		R92-2052-05	CHIP R 0 J 1/10W
W4		R92-2052-05	CHIP R 0 J 1/10W
D1		1SS133	DIODE
D2		UZL-6(L3)	ZENER DIODE
D3		RM10ZLF	DIODE
D4		1SS133	DIODE
D5		AM01Z	DIODE
D6		1SS133	DIODE
D7		UZL-6(L3)	ZENER DIODE
D8		UZL-7(L3)	ZENER DIODE
D11 ,12		1SS133	DIODE
D13		UZL-11(M2)	ZENER DIODE
D15 ,16		AM01Z	DIODE
D20		DAN202K	DIODE
D28 -36		UZ-6.2BS(B)	ZENER DIODE
D37		UZ-11BS(B)	ZENER DIODE
D39 -42		DA204K	DIODE
D43 ,44		DAP202K	DIODE
IC1	*	BA328F	ANALOGUE IC
IC3	*	BA3703F	ANALOGUE IC
IC4	*	LA1143B	ANALOGUE IC
IC5	*	TDA7340P	ANALOGUE IC
IC6 ,7		AN7190K	ANALOGUE IC
IC8		BA3906-V4	ANALOGUE IC
IC9	*	LC72329-8922	MI-COM IC (KRC-356L,N) E3E5
IC9	*	LC72329-8924	MI-COM IC (KRC-356D) E
IC10		NJM4565M	IC(OP AMP X2)(KRC-356D) E
IC11		TDA1579T	IC(DECODER) (KRC-356D) E
Q3 ,4		DTC143TK	DIGITAL TRANSISTOR
Q5		DTC144EK	DIGITAL TRANSISTOR
Q6		2SC2413K	TRANSISTOR
Q7 ,8		DTC144EK	DIGITAL TRANSISTOR
Q9		2SC2412K	TRANSISTOR
Q10		2SA1037K	TRANSISTOR
Q12		2SC2412K	TRANSISTOR
Q13		DTA144EK	DIGITAL TRANSISTOR(KRC-356L) E
Q14 -16		2SC2412K	TRANSISTOR
Q17		2SB1277	TRANSISTOR
Q18		2SA1037K	TRANSISTOR
Q19		DTA124EK	DIGITAL TRANSISTOR
Q20		2SC2412K	TRANSISTOR
Q21 ,22		DTA144EK	DIGITAL TRANSISTOR
Q24 ,25		DTA144EK	DIGITAL TRANSISTOR
Q26		DTC144EK	DIGITAL TRANSISTOR
Q27		2SB1184	TRANSISTOR
Q28		2SC2412K	TRANSISTOR
Q29		DTA124EK	DIGITAL TRANSISTOR

SYNTHESIZER UNIT (X14-524X-XX) 2-70: KRC-356D 2-71 : KRC-356L 2-72KRC-356N

Ref No. 参照番号	New 新	Parts No. 部品番号	Description 部品名／規格
Q30		DTC144EK	DIGITAL TRANSISTOR
Q35		2SB1443	TRANSISTOR
Q36		DTC114EK	DIGITAL TRANSISTOR
Q37		2SB1443	TRANSISTOR
Q38		DTC114EK	DIGITAL TRANSISTOR
Q39		2SA1036K	TRANSISTOR
Q41		2SA1037K	TRANSISTOR
Q42		DTC144EK	DIGITAL TRANSISTOR
Q43		2SC2412K	TRANSISTOR
Q44		2SK536	FET
Q46		DTA144EK	DIGITAL TRANSISTOR
Q47		DTC144EK	DIGITAL TRANSISTOR
Q48		DTA144EK	DIGITAL TRANSISTOR
Q49		DTC144EK	DIGITAL TRANSISTOR(KRC-356L,N) E3E5
Q49 ,50		DTC144EK	DIGITAL TRANSISTOR(KRC-356D) E
Q53 -56		DTC143TK	DIGITAL TRANSISTOR
Q57		DTA144EK	DIGITAL TRANSISTOR
Q58		DTC144EK	DIGITAL TRANSISTOR
TU1	*	W02-1464-05	FM/AM FRONT-END (KRC-356D,N) E1E5
TU1	*	W02-1465-05	FM/AM FRONT-END(KRC-356L) E

SWITCH UNIT (X25-727X-XX) 0-10: KRC-356D/N 2-71 : KRC-356L

301 2E	*	B11-0883-04	OPTICAL DIFFUSER
302 2E	*	B19-1005-03	LIGHTING BOARD
D1 -4		B30-1371-05	LED (KRC-356L) E
D1 -4		B30-1395-05	LED (KRC-356D,N) E1E5
D7 -20		B30-1371-05	LED (KRC-356L) E
D7 -20		B30-1395-05	LED (KRC-356D,N) E1E5
LCD1 2E	*	B38-0618-05	LIQUID CRYSTAL
PL1		B30-1305-05	LAMP(5.5V.125A)(KRC-356L) E
PL2 ,3		B30-1306-05	LAMP(5.5V.125A)(KRC-356D,N) E1E5
PL4		B30-1305-05	LAMP(5.5V.125A)(KRC-356L) E
C1		CK73FB1H223KTA	CHIP C 0.022UF K
C2		CK73FB1H681K	CHIP C 680PF K
303 1E		E29-1432-04	CONDUCTIVE RUBBER
304 1E	*	E29-1452-03	CONDUCTIVE RUBBER
305 1E	*	E29-1454-04	CONDUCTIVE RUBBER
306 1E	*	E29-1455-04	CONDUCTIVE RUBBER
CN1	*	E59-0820-05	RECTANGULAR PLUG
R1 ,2		RK73EB2B471J	CHIP R 470 J 1/8W
R4		RK73EB2B471J	CHIP R 470 J 1/8W
R5 -8		RK73EB2B331J	CHIP R 330 J 1/8W
R9 -13		RK73FB2A101J	CHIP R 100 J 1/10W
R14 -19		RK73FB2A102J	CHIP R 1.0K J 1/10W
R22		RK73FB2A513J	CHIP R 51K J 1/10W
D21 -26	*	UZMA6.2	ZENER DIODE
IC1	*	LC75852E	MOS-IC
Q1		DTC144EK	DIGITAL TRANSISTOR
Q2		DTA144EK	DIGITAL TRANSISTOR

CASSETTE MECHANISM ASSY (D40-1054-05)

1 2A		A10-2345-08	CHASSIS ASSY
2 3B		J21-7524-08	MOUNTING HARDWARE (P.B. HEAD)
3 3B		D14-0630-08	SPRING ROLLER
4 3B		G01-2613-08	TORSION SPRING (PINCH ROLLER)

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KRC-356D/L/N

PARTS LIST

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Ref No. 参照番号		New 新	Parts No. 部品番号	Description 部品名／規格
5	3B		D10-2907-08	SLIDER
6	3B		D13-1102-08	GEAR
7	3B		J90-0741-08	TAPE GUIDE
8	2B		J19-4554-08	HEAD HØLDER
9	2B		J11-0604-08	CLAMPER
11	3B		D10-2908-08	SHIFT PLATE
12	3B		G01-2695-08	H.G SPRING
13	3B		J90-0742-08	WASHER
15	2B		E39-0059-08	WIRING HARNESS
16	2B		D10-2752-08	PINCH RØLLER ASSY (F)
17	2A		D10-2753-08	PINCH RØLLER ASSY (R)
19	2B		J21-7528-08	MØUNTING HARDWARE
20	1B		D10-2909-08	SLIDER
22	3A		D03-0308-08	REEL DISK
23	3A		D13-1103-08	GEAR
24	3A		D13-1104-08	GEAR
25	3A		D13-1105-08	GEAR
26	3A		D13-1106-08	GEAR
27	3A		D13-1107-08	GEAR (REV)
28	3A		D10-2755-08	ARM
29	3A		A11-0889-08	SUB CHASSIS ASSY
30	3A		G01-2618-08	CØMPRESSIØN SPRING
31	3A		D13-1111-08	GEAR
32	3A		D10-2756-08	ARM
33	3A		D10-2757-08	ARM
34	3A		G01-2614-08	TØRSIØN SPRING
36	3A		D03-0309-08	REEL DISK ASSY
41	2A		E60-0801-08	CØNNECTØR
43	1B		D10-2758-08	ARM
44	1A		D10-1346-08	SLIDER
45	1B		G01-1574-08	TENSIØN SPRING
46	1A		G11-1550-08	CUSHIØN
47	1A		G01-2696-08	TØRSIØN SPRING
48	1A		J19-4451-08	HØLDER
49	1A		D10-2759-08	ARM
50	1A		D10-2768-08	SLIDER
51	1B		G02-1153-08	FLAT SPRING
52	1A		G09-0051-08	SPRING
56	2A		D14-0631-08	RØLLER
57	2A		D14-0632-08	RØLLER
58	2A		D10-2747-08	LEVER
59	2A		G01-2620-08	TENSIØN SPRING
60	2A		G01-2621-08	TENSIØN SPRING
61	2A		D10-2912-08	LEVER
64	2B		D10-2769-08	SLIDER
65	2B		G09-2006-08	SPRING
66	2B		G09-2007-08	SPRING
70	3A		D10-2754-08	ARM
71	2A		D13-1109-08	GEAR
72	3A		G01-2616-08	TØRSIØN SPRING
74	3B		D01-0605-08	FLYWHEEL ASSY
75	3B		D16-0606-08	BELT
77	2A		G01-2619-08	CØMPRESSIØN SPRING
78	2B		D13-1110-08	GEAR
79	2B		D15-0909-08	PULLEY

CASSETTE MECHANISM ASSY (D40-1054-05)

Ref No. 参照番号		New 新	Parts No. 部品番号	Description 部品名／規格
80	2A		G01-2617-08	TØRSIØN SPRING
81	2B		D10-2760-08	ARM
82	2B		N09-4055-08	SCREW
83	2A		D10-2761-08	ARM
84	2B		D10-2762-08	ARM
85	1A		G01-2622-08	TENSIØN SPRING
86	3B		D10-2749-08	LEVER
87	3A		N09-4056-08	SCREW
88	2A		D10-2763-08	ARM
89	2B		G01-2623-08	TENSIØN SPRING
90	2B		N19-2038-08	FLAT WASHER
91	1B		G01-2697-08	TENSIØN SPRING
92	1B		D10-2913-08	LEVER
93	1B		D10-2914-08	LEVER
94	2B		D10-2764-08	ARM
95	2B		G01-2625-08	TENSIØN SPRING
96	1B		D10-2765-08	ARM
97	1B		G01-2626-08	TENSIØN SPRING
98	3B		N19-2035-08	FLAT WASHER
99	1B		D10-2766-08	ARM
100	1B		T94-0406-08	SØLENØID CØIL
101	1B		T94-0407-08	SØLENØID
102	1B		G01-2698-08	TENSIØN SPRING
103	2B		D19-0604-08	PIN
104	2B		G01-2627-08	TENSIØN SPRING
150	2B		N09-4009-05	SCREW
151	3B		N09-4009-05	SCREW
153	3B		N19-2036-08	FLAT WASHER
154	2A		N19-2037-08	FLAT WASHER
155	1A		N84-2003-45	SCREW
156	1A		N24-3015-60	E TYPE RETAINING RING
157	1B		N09-4059-08	SCREW
158	2B		N19-2043-08	FLAT WASHER
159	2A		N19-2039-08	FLAT WASHER
160	2B		N24-3020-60	E TYPE RETAINING RING
161	2A		N09-4058-08	SCREW
162	3B		N19-2050-08	FLAT WASHER
163	2A		N19-2041-08	FLAT WASHER
164	2A		N19-2042-08	FLAT WASHER
165	3A		N09-4092-08	SCREW
166	2B		N09-4060-08	SCREW
167	3B		N09-4109-08	SCREW
168	3B		N09-4110-08	SCREW
HD1	2B		T31-0214-08	PLAYBACK HEAD
M1	2A		T42-0734-08	MØTØR ASSY
S1	2A		S62-0813-08	SLIDE SWITCH
S2	2A		S68-0803-08	PUSH SWITCH
S3	2B		S62-0812-08	SLIDE SWITCH

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PARTS LIST

MARKING OF CHIP TRANSISTORS (SMT)
(DTAxxxxK, DTCxxxxK, 2Sxxxxxx K)

SMT (PNP)			
形　名/Parts No.	標　印/Mark	形　名/Parts No.	標　印/Mark
DTA144EK	16	DTA114YK	54
DTA124EK	15	DTA143TK	93
DTA114TK	94	DTA114EK	14
DTA144WK	76	DTA143EK	13
DTA143XK	33	DTA124XK	35
DTA124TK	95	DTA144TK	96
DTA123EK	12	DTA123JK	E32
DTA143ZK	E13	DTA113JK	E11
DTA123YK	52	DTA114WK	74
DTA115EK	19	DTA115TK	99
DTA125TK	9A	DTA114GK	K14
DTA115GK	K19	DTA124GK	K15
DTA144GK	K12		

SMT (NPN)			
形　名/Parts No.	標　印/Mark	形　名/Parts No.	標　印/Mark
DTC144EK	26	DTC114YK	64
DTC124EK	25	DTC143TK	03
DTC114TK	04	DTC114EK	24
DTC144WK	86	DTC143EK	23
DTC143XK	43	DTC124XK	45
DTC124TK	05	DTC144TK	06
DTC123EK	22	DTC123JK	E42
DTC143ZK	E23	DTC113ZK	E21
DTC123YK	62	DTC114WK	84
DTC115EK	29	DTC115TK	09
DTC125TK	0A	DTC114GK	K24
DTC115GK	K29	DTC124GK	K25
DTC144GK	K22		

SMT			
形　名/Parts No.	略記号 / Mark	形　名/Parts No.	略記号 / Mark
2SA1036K	H	2SA1037K	F
2SA1037KLN	D	2SA1455K	G
2SA1514K	M	2SB852K	U
2SC2059K	J	2SC2411K	C
2SC2412K	B	2SC2412KLN	L
2SC2413K	A	2SC3082K	S
2SC3722K	I	2SC3802K	AL
2SC3837K	AC	2SC3838K	AD
2SC3839K	AE	2SC3906K	T
2SD1383K	W	2SD1484K	Y
2SD1757K	AA	2SD1781K	AF
2SD1782K	AJ		

MPT			
形　名/Parts No.	略記号 / Mark	形　名/Parts No.	略記号 / Mark
2SB1132	BA	2SB1188	BC
2SB1189	BD	2SD1664	DA
2SD1766	DB	2SD1767	DC
2SD1384	DE		

KRC-356D/L/N

SPECIFICATIONS

		KRC-356D/N	KRC-356L
FM	Frequency range (MHz) (Frequency step)	87.5MHz~108.0MHz (50kHz)	
	Usable sensitivity (DIN)	0.9μV/75Ω	
	Quieting sensitivity (S/N : 46dB)	1.6μV/75Ω	
	Frequency response (±3.0dB)	30Hz~15kHz	
	S/N (dB)	68dB	
	Selectivity (DIN) (dB)	70dB	
	ST. separation (dB)	35dB (1kHz)	
	19k carrier leak	65dB	
MW	Frequency range (kHz) (Frequency step)	531kHz~1611kHz (9kHz)	
	Usable sensitivity	30μV	
LW	Frequency range (kHz) (Frequency step)	–	153kHz~281kHz
	Usable sensitivity	–	60μV
CASS	Tape speed	4.76cm/sec.	
	Wow/Flutter (WRMS) (%)	0.12% (WRMS)	
	Fast winding time (C-60)	100 (sec)	
	Frequency response (Hz) (±3.0dB)	30~16kHz (120μs)	
	Separation (dB)	40dB (1kHz)	
	S/N (dB)	54dB	
	Preout level (mV)/Load	1500/500Ω	
AUDIO	Maximum output power	25Wx4	
	Output power (4Ω, 1kHz, 10%)	20Wx4	
	(4Ω, 1kHz, 1%)	15Wx4	
	TONE Bass	100Hz±10dB	
	Treble	10kHz±10dB	
GENE-RAL	Operating voltage	14.4V (11~16V allowable)	
	Current consumption	6.9A at rated power	
	Dimensions (W x H x D)	188 x 58 x 176 (mm)	
	Installation size (W x H x D)	182 x 53 x 154 (mm)	
	Weight	1,700g	

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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